Form PTO-159 (Rev Marid) 0 2 2006 OMB No. 0651 0027 (exp. 6/30/2015)6

10-07-2005

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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To the Director of the U.S. Patent and Trademark Office.	e record the attached documents or the new address(es) below.
1. Name of conveying party(les)/Execution Date(s):	2. Name and address of receiving party(ies)
AT&T Wireless Service, Inc.	Name: Cingular Wireless II, LLC.
	Internal Address: Suite 1700
Execution Date(s) 10/27/2005; 4/11/2005  Additional name(s) of conveying party(les) attached? Yes No	Street Address: 5565 Glennidge Conn.
3. Nature of conveyance:	
Assignment Merger	City: Atlanta
Security Agreement Change of Name	State: Georgia
Government Interest Assignment	Country: usa Zip: 30342
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? ☐ Yes ✓ No
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s) See Attached Sheets
See Attached Sheets	See Attached Sheets  OPRIFIE
İ	/FI -4
Additional numbers at	
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 513
Name: Cinquiar Wireless, LLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 20,520
Internal Address: Attn: Linda Giles	Authorized to be charged by credit card
#1725A	✓ Authorized to be charged to deposit account
Street Address: 5565 Glenridge Connector	☐ Enclosed
Suest Address. <u>5566 Glompic Survey</u>	None required (government interest not affecting title)
City: Atlanta	8. Payment Information
State: Georgia Zip: 30342	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: 404-236-6720	b. Deposit Account Number 502450
Fax Number:	
Email Address: linda.glles@cinguler.com	Authorized User Name Counter C. Henry
9. Signature:	9/27/2005
Signature	Date
Coulter C. Henry; Reg. No.: 51,121	Total number of pages including cover
Name of Person Signing	sheet, attachments, and documents:

#### Patents

5197092	5889814	6085114	6334188
5541977	5896425	6092110	6343120
5611176	5903845	6118778	6359923
5638081	5905955	6122503	6363127
5641141	5907565	6125122	637 <b>393</b> 1
5659578	5907801	6134261	6377783
5675590	5909641	6141545	6377787
5675629	5923700	6144851	638 <b>9087</b>
5722084	5930362	6157633	639 <b>3014</b>
5724660	5931965	6158008	639 <b>3283</b>
5732354	5933421	6160839	6400940
5732383	5933778	6 <b>1</b> 67261	6404388
5737707	5940740	6167274	6405032
5754952	5946615	6169895	640 <b>504</b> 1
5784417	5950125	6175555	640 <b>80</b> 16
5790551	5950134	6185258	6411807
5802470	5953652	6188736	641 <b>830</b> 7
5809083	5956636	6188897	641 <b>8318</b>
5819173	5960339	6188899	6427 <b>07</b> 1
5832367	5960340	6195532	643 <b>039</b> 6
5838728	5966642	6201797	6442222
5845198	5974311	6219542	6445716
5845207	5991410	6223042	6445912
5854984	5995830	6229885	6456843
5864543	5995834	6230009	6459740
5865503	6002664	6239719	645 <b>98</b> 97
5870722	6002935	6256518	647 <b>00</b> 43
5872814	6006087	6256735	647 <b>018</b> 2
5875187	6014559	6282420	647 <b>362</b> 3
5875394	6035193	6282421	647 <b>7376</b>
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5878328	6052598	6314303	64 <b>9044</b> 5
5884300	6064875	6317684	649 <b>152</b> 8
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6501951	6662006	5732360
6507866	6675211	5911120
6529593	6681118	6735432
6529726	6687374	6311053
6553237	6697983	6404753
6560209	6700866	6754506
6560455	6704565	5394467
6567671	6707894	5410597
6570983	6725033	5455964
6571094	6741635	5463678
6574292	6744383	5627891
6577723	6748209	5652792
6578173	6751475	6393281
6580914	6754490	6449287
6584144	6760778	D361568
6584175	6765869	D363068
6584317	6765870	D366482
6584321	6768714	D370910
6587700	6771634	D371553
6590533	6771961	5668993
6591098	6775270	5724584
6600776	6775329	5999916
6603966	6775544	6282519
6603984	6775549	63 <b>32</b> 167
6611692	6778527	6658488
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6628194	6782259	
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10/627192	09/783843	10/006936	09/592961
60/399042	09/8 <b>795</b> 75	09/850181	09/594467
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10/615892	10/622106	08/528292	10/922109
10/773555	09/332497	08/925446	09/795630
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#### Patent Applications

10/941247

10/933677

10/940576

10/939103

29/213592

10/367981

#### PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is executed by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") £/k/a AT&T Wireless Services, Inc., on the one hand, and Cingular Wireless II, Inc., a Delaware corporation ("Assignee"), on the other hand.

WHEREAS, Assignor is the owner of certain patentable inventions, patent applications and patents (as disclosed and set forth in Schedule A; collectively, the "Patents"), which Assignor desires to assign to Assignee; and

WHEREAS, Assignee desires to accept such assignment of the Patents.

NOW, THEREFORE, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. Assignment of Patents. Effective as of the date hereof, Assignor assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all of Assignor's right, title and interest in and to the Patents, all agreements and contracts of Assignor related to such Patents (the "Related Agreements") and the improvements and inventions disclosed in said Patents throughout the world, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions and improvements in Assignee's own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries. Assignor authorizes and requests the Commissioner of Patents and Trademarks and any foreign registrar or governmental authority to issue all patents on said applications or applications resulting therefrom to said Assignee, as assignee of Assignor's entire interest. Assignor agrees that it will communicate to said Assignee or its representatives any facts known to Assignor respecting said improvements and inventions, and, at Assignee's expense, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said Patents in all countries, and asserts that it will not execute any agreements inconsistent therewith. Assignee acknowledges that Assignor's assignment of any jointly owned Patent identified on Schedule A shall be subject to any rights such joint owner may have in such Patent.
- 2. <u>Assumption</u>. Effective as of the date hereof, Assignee hereby assumes the due and full payment and performance of all of the liabilities and obligations of Assignor under the Related Agreements.
- 3. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the United States of America and of the State of Delaware.

**Execution Copy** 

- 4. Successors and Assigns. This Assignment shall inure to the benefit of and be binding on the successors and assigns of both parties.
- 5. Patents Subject to Consent. To the extent that any of the Assignor's right, title or interest in and to the Patents or any other rights, contracts, agreements or assets of the Assignor related thereto and/or liabilities or obligations of Assignor purported to be assigned hereunder may not be assigned, transferred or conveyed to, or assumed by, Assignee without the consent, release, authorization or waiver of any third party and such consent, release, authorization or waiver has not been obtained prior to the date hereof (such Patents and other rights, contracts, agreements and assets, the "Non-Transferable Patents" and such liabilities and obligations, "Non-Transferable Liabilities"), this Assignment shall not constitute an assignment, transfer, conveyance or assumption or an attempted assignment, transfer, conveyance or assumption thereof. In this circumstance, this Assignment shall to the extent possible under the Non-Transferable Patent and applicable law constitute an equitable assignment by Assignor to Assignee of all of Assignor's right, title and interest in and to, the Non-Transferable Patents and Assignee shall be deemed to be Assignor's agent for the purpose of paying, performing or discharging the Non-Transferable Liabilities on behalf of Assignor. Assignor shall take all actions reasonably requested by Assignee to provide Assignee with the benefits of the Non-Transferable Patents, including with respect to the enforcement of rights with respect thereto. Assignee shall, with respect to the Non-Transferable Liabilities, pay, perform or discharge in accordance with their terms all liabilities and obligations of Assignor under the Non-Transferable Liabilities. If Assignor is unable to effect an equitable assignment of any Non-Transferable Patent, Assignor shall transfer to Assignee an amount of cash equal to the fair market value (determined as of the date of this Assignment) of such Non-Transferable Patent.

[signatures on following pages]

APPROVED:

**Execution Copy** 

Executed this 27 1/2 day of October, 2004.

Assignor: NEW CINGULAR WIRELESS SERVICES, INC. f/k/a
AT&T Wireless Services, Inc.

By:

Name: Stephen A. Melyau

Title: Vice President - Corporate Development A

STATE OF GEORGIA
COUNTY OF Fullon

On this and day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared stopics A mc Gaw known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

Skery of Harrey

SHERRY L. GARRETT - NOTARY PUBLIC

County of DeKalb



State of Georgia

My Commission Expires Oct. 16, 2005

**Execution Copy** 

Acknowledged this 27 to day of October, 2004.

Assignee: CINGULAR WIRELESS II, INC.

Title: Vice Plexident-Corporate Development

KEPROVED:

COUNTY OF

On this 27 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stephen Mc Gaw known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

Sherry & Harrett SHERRY L. GARRETT - NOTARY PUBLIC

County of DeKalb

State of Georgia

My Commission Expires Oct. 15, 2:)05

# Schedule A

## **Patents**

• All inventions and trade secrets and related rights of Assignor not otherwise listed below

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number				70 07	Antenna for Enhanced
145.US	08/490563	5638081	AT&T Wireless	United States	15-Jun-95	10-2001-97	
		D303463	AT&T Wireless	United States	07-Jun-95	09-Sep-97	Antenna
148.US	29/041775	U303403		European Patent	06-Oct-94		Antenna Mounting System
149.EPC	95902387		AIGI Wildiess				
149115	1965220	5641141	AT&T Wireless	United States	06-Jun-95	24-Jun-97	Antenna Mounting System Arrangement of Displays
				Spiritory Charles	23-Sep-94	13-Jan-98	for a Wireless Communications Terminals
150.US	29/024956	D389140	AT&T Wireless	Offited States	10000		Wireless Communications
4E211C	29/024955	D363281	AT&T Wireless	United States	23-Jun-94	17-Oct-95	Personal Communicator
133.03	20077007		2 TO TA	United States	26-Nov-97	01-Jul-03	With Flip Element Display
154.US.C2	08/979110	6587700	Alai Wileless		) 03		With Flip Element Display
154 11S C2(1)	10/455125		AT&T Wireless	United States	02-101-C0		High Rate Reed-Solomon
7.50.00.101				· 			Concatenated Treilis Coded 16 Star QAM
							System for Transmission of
					22 Nov. 05	17-Feb-04	Radio
155.BR	P19509749-0	P19509749-0	AT&T Wireless	Brazil	CC-1011-77		High Rate Reed-Solomon
							Coded 16 Star QAM
							System for Transmission of
	•	·			22-Nov-95	. 1	Radio
155.CA	2203903		AT&T Wireless	Canada			

ATL01/11768196v1

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Number	Number	Number	Owner	Name	Date	Date	Title
							High Rate Reed-Solomon
		_		. •			Concatenated   reliis
				•	•		Coded 16 Stal CAM
		٠					Data Over Cellular Mobile
155 MX	9703830	195559	AT&T Wireless	Mexico	22-Nov-95	16-Mar-00	Radio
							High Rate Reed-Solomon
							Concatenated Trellis
							Coded 16 Star QAM
•							System for Transmission of
01.00	00777		A TO T 1401-010-0	Linited States	22 Nov. 04	10 Aug 07	Data Over Cellular Mobile
135.03	08/344150	8/08000	Ata wireless	Office States	20-MON-24	ie-Rou-ei	High Rate Reed-Solomon
							Concatenated Trellis
							Coded 16 Star OAM
							System for Transmission of
							Data Over Cellular Mobile
155.US.C1	-626907	5838728	AT&T Wireless	United States	06-May-97	17-Nov-98	Radio
							Cyclic Trellis Coded
156.BR	P19509908-5	mailed	AT&T Wireless	Brazil	22-Nov-95	13-Apr-04	Modulation
				•			Cyclic Trellis Coded
156.MX	9703831	196647	AT&T Wireless	Mexico	22-Nov-95	25-May-00	Modulation
Ç.		000		1 Inited States	22 Nov. 04	07-0-1-07	Cyclic Trellis Coded
156.US	08/344111	26/2290	A I & I WITEIESS	Ollifeo Oldres	Z3-1404-54	0/1001-9/	Modeland
9			A T 0 T 14/2-01-00	I Inited Ctates	00.1.1.07	03.410-00	Cyclic Trellis Coded
156.03.01	/ncn68/80	2931902	AT & I WIEGES	חווופח סומופס	02-00-00	CC ROLL	
156 IS D4	08/670380	5784417	AT&T Wireless	United States	11-Dec-95	21-Jul-98	Cyclic Trellis Coded Modulation
0.00	0000						Cyclic Trellis Coded
156.US.D2	08/581477	5907565	AT&T Wireless	United States	17-Nov-95	25-May-99	Modulation
456 116 D2C 4/4)	10,030038	6578173	AT&T Wireless	United States	04-Jan-02	10-Jun-03	Cyclic Trellis-Coded Modulation
130.03.020	0000000	2110					Cyclic Trellis-Coded
156 US D2C 1(2)	10/434385		AT&T Wireless	United States	07-May-03		Modulation
							System and Method for
		•					Wireless Transmission of
							Differentially Encoded Pilot
157.BR	P19509910-7	P19509910-7	AT&T Wireless	Brazil	22-Nov-95	17-Jul-03	Words
							Differentially Encoded Pilot
157.CA	2203902		AT&T Wireless	Canada	22-Nov-95		Word System and Method
					•	•	

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Docket	Application	Patent		Country	Application Date	Grant Date	Title	
Number	Number	Number	Owner	2			for Wireless Transmissions of Digital Data	
							System and Method for	
						-	Wireless Transmission of	
							Digital Data Using Differentially Encoded Pilot	
			A TOT A COLORINA	Mexico	22-Nov-95	16-Mar-00	Words	
157.MX	9703832	195560	AIGI Wireress	COLVOIN			Differentially Encoded Pilot	
							for Wireless Transmissions	
			ATOT VAIISOIDOS	United States	23-Nov-94	15-Sep-98	of Digital Data	
157.US	08/344238	5809083	Al & I Wireless	2000		·	Location Registration System for a Personal	
							Communicator Such as a	
			ATPT Mireless	Cermany	31-Oct-91	14-Jan-98	Cellular Telephone	
177.DE	566582	69128727.9	AIG WIEGS				Location Registration	
							Communicator Such as a	
				Doomark	31-Oct-91	14-Jan-98	Cellular Telephone	
177.DK	92900021.4	566582	AT&! Wireless	Deliliain			Location Registration	_
							System for a Personal	_
		<u>.</u>					Communicator Such as a	
			AT&T Wireless	France	31-Oct-91	14-Jan-98	Cellular Telephone	
177.FR	92900021.4	200000	3				Location Registration	
					٠.		Communicator Such as a	_
				Cicital Dritain	31-Oct-91	14-Jan-98	Cellular Telephone	
177.GB	92900021.4	566582	AT&T Wireless	Great Dilitairi	55.5		Location Registration	
			•				System for a Personal	
						. ;	Communicator Such as a	
		REGERS	AT&T Wireless	Sweden	31-Oct-91	14-Jan-98	Celiular Teleptione	·
177.SE	790000	200000					System for a Personal	
							Communicator Such as a	_
	· ·			Cica	31-Oct-91	14-Jan-98	Cellular Telephone	-
177.SP	566582	2112309	AT&T Wireless	Spall			Location Registration	
					٠,		System for a Personal	
			-		(	00 14-00	Communicator Such as a	
71.10	07/806523	5197092	AT&T Wireless	United States	31-Oct-90	23-Mar-93	Powered Down Selection	Т
177.03	0100000						of a Preferable Wireless	
						47 Apr.04	Communications Service Provider in a Multi-Service	
206.CA	2188334	2188334	AT&T Wireless	Canada	1 21-Oct-96	10-1dV-71		1
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Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
Number	Number	Nation					Provider Environment
					•		
							Powered Down Selection
		•					Communications Service
				European Patent			Provider in a Multi-Service
טם פטנ	06120004 S	779751	AT&T Wireless	Convention	12-Dec-96	10-Dec-03	Provider Environment
200.ET.C	2012004:3	2001					Powered Down Selection
	-						of a Preferable Wireless
							Communications Service
. 6		7107	ATRT Miroloce	Great Britain	12-Dec-96	10-Dec-03	Provider Environment
206.GB	96120004.5	18/21	AIGI WIIGIGSS	0.000			Powered Down Selection
						<u> </u>	of a Preferable Wireless
	-						Communications Service
						70 77	Provider in a Multi-Service
206.MX	966233	202958	AT&T Wireless	Mexico	09-Dec-96	10-Juc-90	Provider Environment
							of a Preferable Wireless
							Communications Service
							Provider in a Multi-Service
206 116	08/570002	6298235	AT&T Wireless	United States	12-Dec-95	02-Oct-01	Provider Environment
200:002	2000000						Powered Down Selection
							ol a rielelable wileless
							Communications Service
							Provider in a multi-service
208 US C4	1065658		AT&T Wireless	United States	14-Jun-99		Provider Environment
							of a Dreferable Wireless
•							Communications Service
							Provider in a Multi-Service
		7007700	AT&T Wireless	United States	28-Nov-00	30-Oct-01	Provider Environment
206.US.C2	-25322	6311064	Alai Wildias	2000			Memory Exceed
							Notification for Wireless
						•	Network Communication
207 BR	9706556	•	AT&T Wireless	Brazil	09-Jun-97		Device
707.004	2000016				·		Memory Exceed
							Network Communication
21	00000		AT&T Wireless	Mexico	09-Jun-97		Device
207.MX	981350		2000	Datont			Memory Exceed
707 DCT	DCT#1507/10005		AT&T Wireless	Cooperation	09-Jun-97		Notification for Wireless
207.PC1	1011033110032						

Application Patent Country Number Owner Teats		Country Name	1	Application Date	Grant Date	Title Network Communication
Ireaty	Ireaty	reaty				Device Exceed
		- '				Notification for Wireless Network Communication
AT&T Wireless Taiwan		Taiwan		23-Jun-97	24-Aug-00	Device Memory Exceed
						Notification for Wireless
				07 1425.00	30-Sen-03	Network Communication Device
09/519993 6628935 AT&T Wireless United States	1	United States	$\dagger$	Or -Iviar-00		Landline-Supported Private
						Base Station for Collecting
					00	Data and Switchable Into a
AT&T Wireless Taiwan		Taiwan		12-Dec-97	08-Sep-99	Leifular Network
		. •		. *		Base Station for Collecting
					. ·	Data and Switchable Into a
AT&T Wireless United States		United State	Se	17-Dec-96	02-Jan-01	Cellular Network
						Telephone System Having
						Base Station Switchable
Brazil		Brazil		24-Jun-97		Into Cellular Network
						Telephone System Having
					<u> </u>	Base Station Switchable
Canada Canada		Canada		24-Jun-97	18-Mar-03	Into Cellular Network
						1 andline-Supported Private
European Patent	European	European	Patent		-	Base Station Switchable
AT&T Wireless Convention		Conventio	ے	24-Jun-97		Telephone System Having
		-				Landline-Supported Private
						Base Station Switchable
TEGEL SOCIETION TOTA	· .	lanan		24-Jun-97		Into Cellular Network
1	1	10000				Telephone System Having
						Landline-Supported Private
						Base Station Switchable
AT&T Wireless Mexico		Mexico		24~Jun-97		Into Cellular Network Telephone System Having
						I elephonic System
						Base Station Switchable
		Taiwan		24-Jun-97	16-Jul-98	Into Cellular Network
		5				

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
			AT 8 T Wilsold	States	28. lin-96	07-Mar-00	Telephone System Having Landline-Supported Private Base Station Switchable Into Cellular Network
211.CA	2195494	2195494	AT&T Wireless	Canada	20-Jan-97	24-Apr-01	Roaming Authorization System
241 FPC	97101730.6		AT&T Wireless	European Patent Convention	04-Feb-97		Roaming Authorization System
211.US	1951340	6411807	AT&T Wireless	United States	05-Feb-96	25-Jun-02	Roaming Authorization System
211.US.C1	10/051713	6560455	AT&T Wireless	United States	17-Jan-02	06-May-03	Roaming Authorization System
213.CA	2195487	2195487	AT&T Wireless	Canada	20-Jan-97	15-Oct-02	Location-Dependent Cellular Service Profile
213115	08/603290	5950125	AT&T Wireless	United States	20-Feb-96	07-Sep-99	Location-Dependent Cellular Service Profile
218 BR CP1	.74447		AT&T Wireless	Brazil	20-Feb-97		Method and Apparatus for Determining the Location of a Mobile Telephone
218 CA CP1	2105501	2105501	AT&T Wireless	Canada	21-Jan-97	04-Sep-01	Method and Apparatus for Determining the Location of a Mobile Telephone
WY CD4	071205	COCOC	AT&T Wireless	Mexico	17-Feb-97	09-Feb-01	Method and Apparatus for Determining the Location of a Mobile Telephone
21811S	08/472082	73002	AT&T Wireless	United States	07-Jun-95	24-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
218 LD CP1	08/603793	5724660	AT&T Wireless	United States	20-Feb-96	03-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
221.CA	2191143	2191143	AT&T Wireless	Canada	25-Nov-96	16-May-00	Radio Telephone With Detachable Pager
221115	08/576385	5854984	AT&T Wireless	United States	21-Dec-95	29-Dec-98	Radio Telephone With Detachable Pager
	00000000						Method and Apparatus for Indicating to a Wireless Network the Operational Mode of a Wireless
223.CA	2219366		AT&T Wireless	Canada	04-Dec-96		Communicator

Docket	Application	Patent	Owner	Country	Application Date	Date	Title
Number	Number	машры					Method and Apparatus for
				-			Network the Operational
				Furnhan Patent			Mode of a Wireless
			ATP. Wireless	Convention	04-Dec-96		Communicator
223.EPC	96944746.5		AIGI WIIGIGSS				Method and Apparatus for
			-	-			Indicating to a Wireless
							Network the Operational
						•	Mode of a Wireless
			ATOT MARADOS	Mexico	04-Dec-96		Communicator
223.MX	976970		AIGI WIIEESS	No.			Method and Apparatus for
				-			Indicating to a Wireless
		-			-		Network the Operational
						-	Mode of a Wireless
				United States	12-Dec-95		Communicator
223.US	08/571050		Al&I Wireless	OIIIICO OIGIOS			A Method for Selecting a
							Wireless Communications
					•		Service Provider in a Multi-
							Service Provider
				المصوم	21.Oct.96	24-Apr-01	Environment
224 CA	2188330	2188330	AT&T Wireless	Canada	20.00.17		A Method for Selecting a
					•		Wireless Communications
	· ·			•			Service Provider in a Multi-
				Copon Datont			Service Provider
				Competing	12.Dec.98		Environment
224.EPC	96120011		AT&T Wireless	COLINGIA			A Method for Selecting a
							Wireless Communications
							Service Provider in a Multi-
		•	-			-	Service Provider
				Movico	09-Dec-96	13-Dec-00	Environment
224.MX	966230	200025	Aldı wireless	COWOLA			A Method for Selecting a
							Wireless Communications
			-				Service Provider in a mulii-
				-			
	\	100000	AT&T Wireless	United States	29-Oct-97	03-Nov-98	Environment
224.US.C1	08/969710	5832367	Section 1914				Method for Selecting a
			-				Wireless Communications
							Service Provider in a Multi-
					•		Service Provider
			ATRT Wireless	United States	15-Sep-98	28-Aug-01	Environment
224.US.C2	09/152927	0282420	Scala In IC				A Method for Selecting a
:		. •	· -				Wireless Communications
							Service Provider in a month
7000 01 100	00/405040	6430396	AT&T Wireless	United States	25-Oct-99	06-Aug-02	Service Flowings

Number 224.US.C2C1(1) 10	Number		. !	Nome	Date	Date	Title
		Number	Owner	Nalle	2		Environment
							A Method for Selecting a
	-						Wireless Communications
							Service Provider in a Multi-
					-	-	Service Provider
-1			AT9T Mireles	United States	28-May-02	03-Aug-04	Environment
	10/154856	6771961	Alai Wireiess	+			A Method for Selecting a
							Wireless Communications
				<u>.</u>			Service Provider in a Multi-
							Service Provider
	603474		AT&T Wireless	United States	25-May-04		Environment
224.US.C.2C.1(2) -0	03471						Method and Apparatus for
		-					Storing Activation Data in a
	000000	6074244	AT&T Wireless	United States	28-Jul-97	26-Oct-99	Cellular lelephone
Z25.US.C1	7,30,105,7	1124/20					Method and Apparatus for
						;	Storing Activation Data in a
	00/240872	6650893	AT&T Wireless	United States	24-Dec-98	18-Nov-03	Cellular lelephone
223.03.02	210017	200000					Method and Apparatus for
				2 3		700	Collidar Telephone
225 115 03	1002793	6748209	AT&T Wireless	United States	09-Aug-01	08-3un-04	Mathod and Apparatus for
$\dagger$	202120						Method and Apparatus ical
			- :	001-10	20 100 00		Cellular Telephone
225.US.C4 1	10/805247		AT&T Wireless	United States	40-18M-77		Total and Apparatus for
							Method and Apparatus for
	10001	2182817	AT&T Wireless	Canada	07-Aug-96	09-Apr-02	Spectrum Analysis
Z26.CA 2	7197917	1102012			70	24_ hm_03	Method and Apparatus for Spectrum Analysis
226 US C1   0	09/439015	6584175	AT&T Wireless	United States	66-A0NI-71		Dynamically Selecting a
							Wireless Network Offering
			4404120120	Canada	16-Oct-97		a Desired Service Feature
232.CA 2	2274517		AIGI WIERES	200100			Dynamically
		·		European Patent	1		Reconfigurable wireless
	0 0000		AT&T Wireless	Convention	16-Oct-97		Communicato
232.EPC 8	97954673.6						Dynamically Michael
				•	20 07		Recontigurable wireless
232.JP	-100135		AT&T Wireless	Japan	10-00-97		Dynamically
							Reconfigurable Wireless
		, co	AT&T Wireless	United States	30-Apr-96	06-Oct-98	Communicator

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Grant Date		24-Oct-00					23-Dec-00		9	02-Lep-22				24-Sep-03		,	24-Sep-03					24-Sep-03									·	07-Jan-04		24-Sep-03	
Application Date		29-Aug-96	Barra		11-Sep-96		22.Oct-96	20.00		30-Oct-95		12-Nov-96		05-096-96	22.22		05-Dec-96		05_Dec.96	20000		05-Dec-96		90 000	OS-DAC-CO		05-Dec-96		46 him 03	20-IIII-01		28-Nov-96		05-Dec-96	
Country	2		Callada		- Janan			Mexico		United States		Canada			Germany	European Patent	Convention	1111	European Patent	Convention		Great Britain		:	Hong Kong		. Janan			Japan		Mexico		Notherland	
	Owner		AT&T Wireless		ATOT Mirologo			AT&T Wireless		AT&T Wireless		and with the same	AIGI WIIGIGSS		AT&T Wireless		AT&T Wireless			AT&T Wireless		440141141414	AIGH WHENESS		AT&T Wireless	. •	ATOT Miroloce	Algi Wildiess		AT&T Wireless		ATRT Wireless	Algi Wildias	5001-2001-0	Al & I WITEIESS
Patent	Number	•	2184424				<del></del>	200024		5865503					69630100.8		770746	1/0/10					778716										218372		778716
Application	Number		2184424			239633/1996		965014		08/550130		•	2190045		96119565.8			96119565.8-2412		3016354.7			96119565.8		4103133.8			324896/1996		2003-170351	200	. •	965918		96119565.8
Docket	Number		232 CA			233.JP		223 MX			233.03		235.CA		235 DF	1000		235.EPC		235 FPC D1	200 12:007		235.GB		226 17			235.JP		226 ID D4	233.3F.D.	÷	235.MX		235 NL

Docket         Application         Patent         Owner         C           Number         Number         Number         Owner         Number           235.US.C1         09/619108         6490445         AT&TWireless         Unite           235.US.C1(1)         10/226755         6725033         AT&TWireless         Unite           236.CA.D1         2321452         2231452         Cana         Cana           236.CA.D2         2335283         AT&TWireless         Cana           236.CA.D2         2335283         AT&TWireless         Cana           236.CA.D2         2335275         AT&TWireless         Cana           236.CA.D2         2335275         AT&TWireless         Cana           236.EPC.D2         2077853.6         AT&TWireless         Con           236.EPC.D2         2077853.6         AT&TWireless         Con           236.HK1         3103379.2         AT&TWireless         HOn           236.HK2         3103379.2         AT&T Wireless         HOn           236.JP         9-51275.1         AT&T Wireless         Unit           236.JP         9-51275.1         AT&T Wireless         Unit           236.US         260934         5675629				
10,0256755   6725033   AT&T Wireless	Country	Application   Date	Date	Title
(1)         10/226755         6725033         AT&T Wireless           (2)         10/814574         AT&T Wireless           (2)         2231452         2231452         AT&T Wireless           (2)         2332253         AT&T Wireless           (3)         2335275         AT&T Wireless           (4)         2077853.6         AT&T Wireless           (5)         2077853.6         AT&T Wireless           (6)         2077852.8         AT&T Wireless           (7)         3103379.2         AT&T Wireless           (8)         3103379.2         AT&T Wireless           (9)         4103379.2         AT&T Wireless           (8)         4182 Wireless         AT&T Wireless           (1)         10/279866         6681118         AT&T Wireless           (2)         4181 Wireless         AT&T Wireless           (2)         4182 Wireless         AT&T Wireless           (2)         410235039         AT&T Wireless           (3)         410235039         AT&T Wireless           (3)         4182 Wireless         AT&T Wireless		8	03-Dec-02	Customer Activation System for Cellular Network
10/226755         6725033         AT&T Wireless           10/814574         AT&T Wireless           2231452         2231452         AT&T Wireless           2335283         AT&T Wireless           2335275         AT&T Wireless           2077853.6         AT&T Wireless           2077853.6         AT&T Wireless           3103379.2         AT&T Wireless           3103379.2         AT&T Wireless           9-512751         AT&T Wireless           9-512751         AT&T Wireless           9-512751         AT&T Wireless           9-60334         5675629         AT&T Wireless           10/279866         6681118         AT&T Wireless           10/235039         6611682         AT&T Wireless           20034         5675629         AT&T Wireless           20034         5675629         AT&T Wireless           200334         5675629         AT&T Wireless           200335039         6611682         AT&T Wireless           20034         5675629         AT&T Wireless           20034         5675629         AT&T Wireless	United States	00-102-61		Customer Activation System for Cellular
10/814574         AT&T Wireless           2231452         2231452         AT&T Wireless           2335283         AT&T Wireless           2335275         AT&T Wireless           2077853.6         AT&T Wireless           2077853.6         AT&T Wireless           3103379.2         AT&T Wireless           3103379.2         AT&T Wireless           9-512751         AT&T Wireless           9-512751         AT&T Wireless           10/279866         6681118         AT&T Wireless           10/235039         6611692         AT&T Wireless           10/0235039         6611692         AT&T Wireless           10/0447105         AT&T Wireless           10/0447105         AT&T Wireless	United States	23-Aug-02	20-Apr-04	Network
10/814574         A16.1 Wireless           2231452         2231452         AT&T Wireless           2335283         AT&T Wireless           2335275         AT&T Wireless           2077853.6         AT&T Wireless           3103379.2         AT&T Wireless           3103378.3         AT&T Wireless           9512751         AT&T Wireless           9512751         AT&T Wireless           9512751         AT&T Wireless           10/279866         6681118         AT&T Wireless           10/279866         6681118         AT&T Wireless           10/235039         6611692         AT&T Wireless           10/2479866         6681118         AT&T Wireless           10/235039         6611692         AT&T Wireless           10/047105         AT&T Wireless	States	31-Mar-04		Customer Activation System for Cellular Network
2231452         2231452         AT&T Wireless           2335283         AT&T Wireless           2335275         AT&T Wireless           31         2077852.8         AT&T Wireless           3103379.2         AT&T Wireless           3103379.3         AT&T Wireless           3103350.3         AT&T Wireless           3103350.3         AT&T Wireless           3103350.3         AT&T Wireless           3103350.3         AT&T Wireless	Canada	96-Sep-96	25-Jun-02	Cordless Cellular System Base Station
2335283  2335283  AT&T Wireless 96930783.4  AT&T Wireless  2077852.8  AT&T Wireless		96-Seb-90		Cordless Cellular System Base Station
2335275 AT&T Wireless 96930783.4 AT&T Wireless 12 2077852.8 AT&T Wireless 3103379.2 AT&T Wireless 3103379.2 AT&T Wireless 9-512751 AT&T Wireless 981829 202590 AT&T Wireless -260934 5675629 AT&T Wireless 2(1) 10/279866 6681118 AT&T Wireless 3(1) 10/235039 6611692 AT&T Wireless 3(2) 10/235039 6611692 AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless		06-Sep-96		Cordless Cellular System Base Station
11       2077853.6       AT&T Wireless         12       2077852.8       AT&T Wireless         12       2077852.8       AT&T Wireless         13       3103379.2       AT&T Wireless         260934       5675629       AT&T Wireless         260934       5675629       AT&T Wireless         21)       10/279866       6681118       AT&T Wireless         3(1)       10/235039       6611692       AT&T Wireless         3(2)       10/647105       AT&T Wireless		06-Sep-96		Cordless Cellular System Base Station
D1         2077853.6         AT&T Wireless           D2         2077852.8         AT&T Wireless           3103379.2         AT&T Wireless           3103378.3         AT&T Wireless           9-51275.1         AT&T Wireless           9-51275.1         AT&T Wireless           202590         AT&T Wireless           22(1)         10/279866         6681118         AT&T Wireless           23(1)         10/235039         6611692         AT&T Wireless           23(1)         10/235039         6611692         AT&T Wireless           23(1)         10/235039         6611692         AT&T Wireless	European Patent Convention	96-deS-90		Cordless Cellular System Base Station
2077852.8 AT&T Wireless 3103379.2 AT&T Wireless 3103378.3 AT&T Wireless 9-512751 AT&T Wireless 9-512751 AT&T Wireless -260934 5675629 AT&T Wireless 1) 10/279866 6681118 AT&T Wireless 1) 10/235039 6611692 AT&T Wireless 2) 10/847105 AT&T Wireless	European Patent Convention	06-Sep-96		Cordless Cellular System Base Station
1 3103379.2 AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless 9-512751 AT&T Wireless AT&T Wireless AT&T Wireless 202590 AT&T Wireless AT&T WIRELE AT&T WIREL AT&T WIRELE AT&T WIRELE AT&T WIRELE AT&T WIRELE AT&T WIRELE AT&	European Patent Convention	06-Sep-96		Cordiess Cellular System Base Station
2 3103378.3 AT&T Wireless AT&T		13-May-03		Base Station
9-512751 AT&T Wireless 9-512751 AT&T Wireless 202590 AT&T Wireless -260934 5675629 AT&T Wireless D2(1) 10/279866 6681118 AT&T Wireless D3(1) 10/235039 6611692 AT&T Wireless AT&T Wirele		13-May-03		Cordless Cellular System
D2(1)       10/235039       AT&T Wireless         D2(1)       10/235039       AT&T Wireless         D3(1)       10/235039       6611692       AT&T Wireless         D3(2)       10/647105       AT&T Wireless	Vireless Japan	06-Sep-96		Cordless Cellular System Base Station
D2(1)         10/279866         6681118         AT&T Wireless           D3(1)         10/235039         6611692         AT&T Wireless           D3(1)         10/235039         6611692         AT&T Wireless           D3(2)         10/647105         AT&T Wireless	Vireless Mexico	06-Sep-96	22-Jun-01	Cordless Cellular System Base Station Cordless Cellular System
D2(1)         10/279866         6681118         AT&T Wireless           D3(1)         10/235039         6611692         AT&T Wireless           D3(2)         10/647105         AT&T Wireless		08-Sep-95	07-Oct-97	Base Station .
10/235039 6611692 AT&T Wireless AT&T Wireless		25-Oct-02	20-Jan-04	Cordiese Cellular System
10/647105 AT&T Wireless	1	04-Sep-02	50-400-07	Cordless Cellular System
	-	22-Aug-us	18-Nov-03	Method for Altocating a
239.CA 2261927 2261927 AT&T Wireless Can	Wireless Canada	11-7nl-87	COLACONION	

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	Patent	- Contract	Country	Application	Date	Title
1	Number		European Patent	77		Method for Allocating a
i		AT&T Wireless	Convention	18-IN-11		Method for Attocating
~	205708	AT&T Wireless	Mexico	11-Jul-97	18-Dec-01	Mobile Station TMSI
11 (		ATRT Wireless	Taiwan	15-Jul-97	11-Sep-98	Mobile Station TMSI
י וית	0.000		I Inited States	29-Jul-96	21-Mar-00	Method for Allocating a Mobile Station TMSI
<b>6</b>	6039624	AIGI WEGGSS		90 000 00	16-Mar-00	Method and Apparatus for Wireless Communication System Organization
	713550	AT&T Wireless	Australia			Method and Apparatus for Wireless Communication System Organization
		AT&T Wireless	Brazii	S 250		Method and Apparatus for Wireless Communication
• • •	2190552	AT&T Wireless	Canada	18-Nov-96	24-Oct-00	Method and Apparatus for
	2208052	AT&T Wireless	Great Britain	09-Dec-96	08-Mar-00	Wireless Communication System Organization
	700000	solotivi Tata	eibal	22-Nov-96		Method and Apparatus for Wireless Communication System Organization
		AIGH WHENESS				Method and Apparatus for
		AT&T Wireless	Japan	19-Dec-96		System Organization
		A T O T Milestone	I Inited States	21-Dec-95	02-Mar-99	Wireless Communication System Organization
	58/8328	2000		3	90	Concurrent Ringing on Multiple Network
	101482	AT&T Wireless	Talwan	24-Jun-97	200	Concurrent Ringing on
	6405041	AT&T Wireless	United States	27-Jun-96	11-Jun-02	Telephones Concurrent Ringing on
		A TO T Wilcologo	I Inited States	15-Apr-02	24-Jun-03	Multiple Network Telephones
<del></del>	6584317	AIG WIEGGS		SO Most Of	14.Dec-99	Packet Data Transmission Using Dynamic Channel Assignment
	2238552	AT&T Wireless	Canada	76-404-37		

Docket	Application	Patent		Country	Application	Grant	H	
Number	Nimber	Number	Owner	Name	Date	nate	Tracemicelon	ocios
Maine							Packet Data Hansinissic	i jac
				European Patent	22-Nov.96		Assignment	
247.EPC	96939741.3		AT&T Wireless	COLINGINOI			Packet Data Transmission	ssion
					-		Using Dynamic Channel	nel leu
		007.000	AT&T Wireless	Mexico	22-Nov-96	13-Dec-01	Assignment	
247.MX	984220	Z02460	2000	Datent			Packet Data Transmission	ssion
	-			Cooperation			Using Dynamic Channel	Je L
				Treaty	22-Nov-96		Assignment	
247.PCT	PCT/US96/18743		Al & I WITEIESS	Hoary			Packet Data Transmission	ssion
							Using Dynamic Channel	Tel.
•	. !		ATPTMireless	United States	28-Nov-95	04-Aug-98	Assignment	
247.US	08/563816	15/90501	A I G I WII GIGSS	2000			Method and Apparatus for	us for
			•				Providing	
		-					Telecommunication	-
				. •			Services Based on a	
							Subscriber Profile Updated	dated
							by a Personal Information	ation
	1		ATRT Wireless	Brazil	19-May-97		Manager	
248.BK	384115		Colonia in the				Method and Apparatus for	us for
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40.07	2270772						Method and Apparatus for	
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	•			Contontion	10-May-07		Manager	
248.EPC	97926592.3		AT&I Wireless	COLIVERINOLI	in California		Method and Apparatus for	tus for
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							Telecommunication	
							Services Based on a	
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			AT&T Wireless	Japan	19-May-97		Manager	
248.JP	10-200600						Method and Apparatus for	101S 104
						•	Providing Tologonian	
	-					00	Services Based on a	
248.MX	980829	214649	AT&T Wireless	Mexico	19-Way-97	20110280		

Application Patent Number Number 19980461 Petrius Number 19980461 Petrius Number Numbe	Owner AT&T Wireless AT&T Wireless	Country Norway Patent Cooperation Treaty	Application Date 19-May-97	Date	Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing  Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing  Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing  Telecommunication  Services Based on a Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing
7/08455 5 93	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing  Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing  Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager  Method and Apparatus for Providing  Telecommunication  Method and Apparatus for Providing
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication Manager Method and Apparatus for Providing
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		by a Personal Information Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
7/08455	AT&T Wireless AT&T Wireless	Norway Patent Cooperation Treaty	19-May-97		Manager Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
7/08455	AT&T Wireless	Patent Cooperation Treaty	19-May-97		Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
	AT&T Wireless	Patent Cooperation Treaty	19-May-97		Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
	AT&T Wireless	Patent Cooperation Treaty	19-May-97		Services Based on a Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
	AT&T Wireless	Patent Cooperation Treaty	19-May-97		Subscriber Profile Updated by a Personal Information Manager Method and Apparatus for Providing
	AT&T Wireless	Cooperation Treaty	19-May-97		by a Personal Information Manager Method and Apparatus for Providing
	AT&T Wireless	Cooperation Treaty	19-Мау-97		Manager Method and Apparatus for Providing Talecommunication
	AT&T Wireless	lreary			Method and Apparatus for Providing
					Providing Talecommunication
					Services Based on a
	_				Subscriber Profile Updated
					by a Personal Information
	4	Takwan	30-May-97	18-Jun-98	Manager
÷	AT&I WIREIESS	Idiwali			Method and Apparatus for
		*:			Providing
	•				Services Based on a
					Subscriber Profile Updated
•	<del> </del>	•			by a Personal Information
	ATRT Wireless	United States	04-Jun-96	03-Aug-99	Manager
888849 5933778	200				Method and Apparatus for
					Original Multiple
					Wireless Communication
			44_hm_07		System Environment
9706555	AT&T Wireless	Brazil	101100-11		Method and Apparatus for
				· ·	Maintaining Channel
				÷	Priority in a Multiple
	1	cpcaco	11_hm-97	22-Jan-02	System Environment

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
							Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication
250.MX	981511	202991	AT&T Wireless	Mexico	11-Jun-97	06-Jul-01	System Environment
							Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment Method and Apparatus for Maintaining Channel
250 TW	86108843	96577	AT&T Wireless	Taiwan	23-Jun-97	16-Dec-98	Wireless
							Method and Apparatus for Maintaining Channel Priority in a Muttiple
250.US		5966642	AT&T Wireless	United States	28-Jun-96	12-Oct-99	Wireless Communication System Environment
252 CA	2188329	2188329	AT&T Wireless	Canada	21-Oct-96	01-May-01	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment
70.0%	08120010.2	60628270	AT&T Wireless	Germany	12-Dec-96	21-May-03	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment
702.020	201200102	770753	AT&T Wireless	European Patent Convention	12-Dec-96	21-May-03	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment
252 FDC D1	3011438.3	9010	AT&T Wireless	European Patent Convention	12-Dec-96		A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment
•							A Method for Selecting a Preferable Wireless Communications Service Provider in a Mutti-Service
252.FR	96120010.2	779753	AT&T Wireless	France	12-Dec-96	21-May-03	Provider Environment

	•						
Docket	Application	Patent	Samo	Country	Application Date	Grant Date	Title
Number	Number	Number	Owie				A Method for Selecting a
							Communications Service
	-	-	-				Provider in a Multi-Service
			ATOT Windows	Great Britain	12-Dec-96	21-May-03	Provider Environment
252.GB	96120010.2	779753	AIGI WIIGIGSS				A Method for Selecting a
							Preferable Wireless
							Communications Service
					80,200,00		Provider Environment
252.MX	966232		AT&T Wireless	Mexico	מפר-פת		A Method for Selecting a
							Preferable Wireless
	*						Communications Service
							Provider in a Multi-Service
252115	08/570904	6418318	AT&T Wireless	United States	12-Dec-95	09-Jul-02	A Method for Selecting a
20:202							Preferable Wireless
							Communications Service
							Provider in a Multi-Service
01.010	***************************************	6782250	AT&T Wireless	United States	19-Mar-02	24-Aug-04	Provider Environment
252.US.C1	10/089944	0102233					A Method for Selecting a
							Communications Service
							Provider in a Multi-Service
			ATOT Wilseless	United States	26-May-04		Provider Environment
252.US.C1(1)	mailed		AIGI WIIGIGSS				A Method for Selecting a
				: 			Wireless Service Provider
							In a Multi-Service r lovice Frovironment Using a
				Capada	21-Oct-96	06-Aug-02	Geographic Database
253.CA	2188333	2188333	AI&I WITEIESS	Caliaca			Method for Selecting a
							Wireless Service Flowing
							Environment Using A
				Germany	12-Dec-96	16-Jun-04	Geographic Database
253.DE	69632713.908	779752	Al&i Wireless	Germany			Method for Selecting a
							Wireless Service Provider
				Curonean Datent	•		Environment Using A
		63.00.	AT&T Wireless	Convention	12-Dec-96	16-Jun-04	Geographic Database
253.EPC	96120005.2	7,9752	Algi Wiididas				A Method for Selecting a
							Wireless Service Provider in a Multi-Service Provider
		202750	AT&T Wireless	Mexico	09-Dec-96	02-Jul-01	Environment Using a
253.MX	966231	202730	טומו אווסססס			-	

Title	Database	A Method for Selecting a Wireless Service Provider. In a Multi-Service Provider Environment Using a Geographic Database	Wireless Communication Service Management	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Method for Determining Organization Parameters In a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System				
1	Geographic Database	A Method for Selecting a Wireless Service Provide in a Multi-Service Provide Environment Using a Geographic Database	Wireless Communical Service Management	Wireless Communical Service Management	Wireless Communical Service Management	Wireless Communica Service Management	Wireless Communical Service Management	Wireless Cor Device With	Wireless Cor Device With	Wireless Cor Device With	Method for Determining Organization Parameter a Wireless Communicati System	Method for Determining Organization Parameter a Wireless Communicati System	Method for Determining Organization Parameter a Wireless Communicati System	Method for Determining Organization Parameter a Wireless Communicat System
Grant Date		18-May-99	14-Oct-03		02-Sep-02	12-Jan-00	26-Dec-00	30-Mar-04	20-May-03		24-Oct-02			23-Apr-02
Application Date		12-Dec-95	03-Feb-98	03-Feb-98	03-Feb-98	09-Feb-98	27-Feb-97	11-Aug-98	11-Aug-97	02-Apr-03	01-Apr-97	20-Mar-02	27-Mar-97	06-Mar-97
Country Name		United States		European Patent Convention	Mexico	Taiwan	United States	Canada	United States	United States	Australia	Australia	Brazil	Canada
Owner		AT&T Wireless		AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless					
Patent Number		5905955	2282443	•	210069	106908	6167261	2244682	6567671		749334			2199310
Application Number		08/570903	2282443	98904684.2	997818	87101700	08/810959	2244682	08/909387	10/406912	16648/97	773877	126070	2199310
Docket Number		253.US		255.EPC	255.MX	255.TW	255.US	256.CA	256.US	256.US.D1	258.AU	258.AU.D1	258.BR	258.CA

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Mailie			Method for Determining
		. *					Organization Parameters in a Wireless Communication
				Great Britain	01-Apr-97	11-Oct-00	System
258.GB	9706533.8	2311912B	Al & I Wireless	-			Method for Determining
							Organization Parameters in
				(10)	04.Anr.07	,	System
258.IN	717/MAS/97		AT&T Wireless	IIIOIG	200		Method for Determining
						•	Organization Parameters in
							a Wireless Communication
258 JP	85443/1997	•	AT&T Wireless	Japan	04-Apr-97		Method for Determining
							Organization Parameters in
				Cototo Cototo	04.04.06	17-Dec-02	a Wireless Communication System
258.US	08/628214	6496700	AT&T Wireless	United States	04-Mpi-30	1000	Method for Determining
						÷	Organization Parameters in a Wireless Communication
!			AT&T Mireless	United States	25-Feb-02		System
258.US.D2	10/082402		Alal Windias				Method and System for Automatic Activation of a
			ATRT Wireless	Brazil	15-Jul-97		Wireless Device
260.BR	1992490						Method and System for Automatic Activation of a
***	2200628	2200528	AT&T Wireless	Canada	03-Jul-97	12-Jun-01	Wireless Device
Z60.CA	770320	770077		Eumopean Datent			Method and System for Automatic Activation of a
· · · · · ·		•	ATOT Mirehoes	Convention	26-Jun-97		Wireless Device
260.EPC	97304542		AIQI WIIDIGSS				Method and System for
				•	46 1.4 07		Automatic Activation of a Wireless Device
260.JP	190864/1997		AT&T Wireless	Japan	10-101-01		Method and System for
							Automatic Activation of a
MX OBC	975114	207169	AT&T Wireless	Mexico	08-Jul-97	14-Mar-02	Method and System for
VAI.002			<i>y</i>				Automatic Activation of a
			AT&T Wireless	Norway	08-Jul-97		Wireless Device
260.NO	19973158		200				Method and System for
:		200	AT&T Wireless	Taiwan	09-Jul-97	16-Nov-98	Wireless Device
260.TW	86109681	19808	אומוסוסווא ואווע				Method and System for
9		808836	AT&T Wireless	United States	16-Jul-96	21-Sep-99	Automatic Activation of a Wireless Device
260.03	00/003013	222000			21		

				Application	Grant	
Number	Number	Owner	Name	Date	Date	Title
2259329	2259329	AT&T Wireless	Canada	02-Jun-97	01-Jun-04	TDMA Messaging Service Microcell
07027704 4		AT&T Wireless	European Patent	02-Jun-97		TDMA Messaging Service
10-504100		ATRT Wireless	lanan	02. hip-97		TDMA Messaging Service
						TDMA Messaging Service
990211		AT&T Wireless	Mexico	02-Jun-97		Microcell
08/672769	5875187	AT&T Wireless	United States	28-Jun-96	23-Feb-99	TOMA Messaging Service Microcell
09/168919		AT&T Wireless	United States	09-Oct-98		TDMA Messaging Service
						Method for Optimal
						Selection Among Multiple Providers in a Wireless
9710455-8	9710455-8	AT&T Wireless	Brazil	24-Jun-97	10-Dec-02	Communications Service Environment
						Method for Optimal
						Selection Among Multiple Providers in a Wireless
2259230	2259230	AT&T Wireless	Canada	24-Jun-97	07-Jan-03	Communications Service Environment
						Method for Optimal
	,					Selection Among Multiple Providers in a Wireless
			European Patent			Communications Service
97932326.8		AT&T Wireless	Convention	24-Jun-97		Environment
						Method for Optimal
				•		Selection Among Multiple Providers in a Wireless
						Communications Service
10-504316		AT&T Wireless	Japan	14-Dec-98		Environment
						Method for Optimal
						Selection Among Multiple
	:					Communications Service
86108823	94720	AT&T Wireless	Taiwan	24-Jun-97	18-Sep-98	Environment
2000						Method for Optimal
			٠,			Selection Among Multiple
				•		Comminication Service
08/672907	5845198	AT&T Wireless	United States	28-Jun-96	01-Dec-98	Environment
2245040	0,00,00	ATPT Mirelose	Concell	10 Can 07	04- lon 02	Adolf and Among the for

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Docket	Application	Patent		Country	Application	Grant	Title	
Nimber	Number	Number	Owner	Name	Date		Providing a Caller ID Alias	
							Method and Apparatus for	
			ATOT Mirelace	Mexico	06-Oct-97	13-Dec-02	Providing a Caller ID Alias	
65.MX	977677	212046	Algi Wildios			20 00	Method and Apparatus for Providing a Caller ID Alias	
65.US	2007953	6343120	AT&T Wireless	United States	08-Oct-96	29-Jail-02	Detection of Fraudulently	
		07.4	ATST Wireless	Taiwan	19-Jan-98	31-Jan-00	Registered Mobile Phones	
266.TW	87100664	916/01	Aldi Wickey		20 -1 10	44 Con 00	Detection of Fraudulentity Registered Mobile Phones	
See. US	-65895	5953652	AT&T Wireless	United States	24-Jan-97	14-040-33	Method and System for	
		·					Delivering a Voice Mail	
							Notification to a Subscriber	
					-		Using Cellular Phone	
01	00,000	E006087	AT&T Wireless	United States	10-Apr-97	21-Dec-99	Method and System for	
269.US	08/838013	000000					Delivering a Voice Mail	
							Notification to a Subscriber	
				•			Using Cellular Phone	
				I Inited Otatos	99-VON-90	09-Jul-02	Network	
269 US.C1	09/448904	6418307	AT&T Wireless	United States	20-101-07		Method and System for	
					· ·		Delivering a Voice Mail	
							Notification to a Subscriber	
		-				-	Using Cellular Phone	
•			4 + 0 + 14/1-1500	United States	15-May-02		Network	
269.US.C2	10/147408		AT&I WIREIESS	COURCE COURCE			Method and System for	
							Delivering a Short-	
			AT&T Wireless	Canada	27-Oct-98		Mothod and System for	
270.CA	2251589						Delivedor a Short	
				European Patent	00,1014.00		Message Notification	
702 020	08122142 7		AT&T Wireless	Convention	06-404I-C7		Method and System for	
2/0.ErC							Delivering a Short	
				Movico	30-Nov-98		Message Notification	
270.MX	9810043		AT&I Wireless	MEANO			Method and System for	
							Delivering a Silvin	
		000000	AT&T Wireless	United States	02-Dec-97	07-DCI-03	Dorsonal Information	
270.US	-179851	0030003	5		,	<i>:</i>	Manager for Undating a	
L.,							Telecommunication	
		3			10.1/20/-07		Subscriber Profile	
272.BR	384268		AT&T Wireless	Drazii	io (alla)		Personal Information	
			:		40 May 07	12-Sep-00	Manager for updating a Telecommunication	<u> </u>
272.CA	2228139	2228139	AT&T Wireless	Canada	18-Way-81	355 31		
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Docket         Application         Patent         Country         Application         Title           Number         Number         Number         Number         Number         Date         Date         Susscient Profile           Number         Number         Number         Number         Convenion         Indicate Profile         Susscient Profile           272.EPC         \$7225618         AT&TWineless         Luopean Patent         14.589-02         Subscribe Profile           272.LNC         \$805500         AT&TWineless         Moxico         15.489-97         Subscribe Profile           272.NC         \$805500         AT&TWineless         Moxico         15.489-97         I.6-Nor-1         Subscribe Profile           272.NC         \$805500         AT&TWineless         Norvery         15.489-97         I.6-Nor-1         Subscribe Profile           272.NC         \$805500         ATXTWineless         Norvery         15.489-97         I.6-Nor-1         Subscribe Profile           272.NC         \$805000         ATXTWineless         Triesby-97         16.409-97         I.6-Nor-1         Subscribe Profile           272.LNC         \$805081-5         ATXTWineless         Triesby-97         16.409-97         I.6-Nor-1         Subscribe Profile     <								
Number   Number   Owner   Number   Nu	Docket	Application	Patent		Country	Application Date	Grant Date	Title
1	Number	Number	Number	Owner	DIIIBN			Subscriber Profile
1980-256849								Personal Information
1								Manager for Updating a
97825647.6  10 2002-258849  10					European Patent	1		Telecommunication
1				AT&T Wireless	Convention	19-May-97		Dorsonal Information
2002-258849	72.EPC	97925647.6		2000				Manager for Updating a
Sign								Telecommunication
2002-258849   AT&I Wireless   Japan   Cooperation   19-May-97   16-Nov-01   Signature   19980460   19-May-97   16-Nov-01   Signature   19980460   19-May-97   19						. Co-00-00		Subscriber Profile
1980830   205256   AT&T Wireless   Mexico   19-May-97   16-Nov-01   5   19800460   19-May-97   19-May-99   19-May-97   19-May-99   19-Ma	72 ID 0.1	2002-258849		AT&T Wireless	Japan	2000000		Personal Information
980830   205256.   AT&T Wireless   Mexico   19-May-97   16-Nov-01   17 M M M M M M M M M M M M M M M M M M	12: 13:							Manager for Updating a
1980460   205256   AT&T Wireless   Mexico   19-May-97   16-Nov-01   5   5		٠.				-		Telecommunication
19980460				1000	Mexico	19-May-97	16-Nov-01	Subscriber Profile
19980460	72.MX	980830	205256.	Al&i Wireless	MICHIGA			
19980460								Manager for Updating a
19980460								Telecommunication
19980460					Noversi	19-Mav-97		Subscriber Profile
Patent   Patent   Cooperation   19-May-97   Fortus   Footparation   19-May-97   Footparation   19-May-98   Footparation   19-May-98   Footparation   19-May-98   Footparation   19-May-98   Footparation   19-May-99   Footparation   19-Ma	272,NO	19980460		AT&I Wireless	NOI WOT			Personal Information
PCT/US97/08510			-		Patent			Manager for Updating a
PCT/US97/08510					Cooperation			Subscriber Profile
PC1/US9//U0310   PC1/	ļ			AT&T Wireless	Treaty	19-May-9/		Dersonal Information
86107431         92856         AT&T Wireless         Taiwan         30-May-97         09-Jun-98         7           86777         5903845         AT&T Wireless         United States         04-Jun-96         11-May-99         1           9803891-5         AT&T Wireless         Brazil         09-Oct-98         26-Mar-02           Compean Patent         European Patent         Beach         26-Mar-02           Comvention         09-Oct-98         Convention	272.PCT	PC1/089//08510						Manager for Updating a
86107431         92856         AT&T Wireless         Talwan         30-May-97         09-Jun-98         S           86777         5903845         AT&T Wireless         United States         04-Jun-96         11-May-99         1           9803891-5         AT&T Wireless         Brazil         09-Oct-98         )         )           2249895         AT&T Wireless         Canada         09-Oct-98         26-Mar-02           Canada         AT&T Wireless         Canada         09-Oct-98         26-Mar-02					-			Telecommunication
86107431         92856         AT&T Wireless         I alwan         30 min of Jun						30.8459-07	99-Jun-98	Subscriber Profile
86777         5903845         AT&T Wireless         United States         04-Jun-96         11-May-99           9803891-5         AT&T Wireless         Brazil         09-Oct-98         26-Mar-02           2249895         AT&T Wireless         Canada         09-Oct-98         26-Mar-02           Convention         09-Oct-98         AT&T Wireless         Convention         09-Oct-98		06107431	92856	AT&T Wireless	Taiwan	30-May-31		· Personal Information
86777         5903845         AT&T Wireless         United States         04-Jun-96         11-May-99           9803891-5         AT&T Wireless         Brazil         09-Oct-98         28-Mar-02           2249895         AT&T Wireless         Canada         09-Oct-98         28-Mar-02           Convention         09-Oct-98         Convention         09-Oct-98         Convention	272.1W	00101451						
86777         5903845         AT&T Wireless         United States         04-Jun-96         11-May-99           9803891-5         AT&T Wireless         Brazil         09-Oct-98         11-May-99           2249895         AT&T Wireless         Canada         09-Oct-98         26-Mar-02           Convention         09-Oct-98         AT&T Wireless         Convention         09-Oct-98								Telecommunication
86777         5903845         AT&T Wireless         Orling Order           9803891-5         AT&T Wireless         Brazil         09-Oct-98           2249895         AT&T Wireless         Canada         09-Oct-98           Convention         O9-Oct-98         26-Mar-02           AT&T Wireless         Convention         09-Oct-98					Linited States	. 04-Jun-96	11-May-99	Subscriber Profile
9803891-5 9803891-5 2249895 AT&T Wireless Canada 09-Oct-98 26-Mar-02 European Patent Convention 09-Oct-98 AT&T Wireless Convention 09-Oct-98 26-Mar-02	. 0170	86777	5903845	AT&T Wireless	Olinea Creace			Method for Providing
9803891-5 AT&T Wireless Brazil 09-Oct-98 , 2249895 AT&T Wireless Canada 09-Oct-98 26-Mar-02 European Patent European Patent Convention 09-Oct-98	212.03				·			Remote Emulation of the
9803891-5 AT&T Wireless Brazil 09-Oct-98 , 2249895 AT&T Wireless Canada 09-Oct-98 26-Mar-02								Functionality of a rilivate
9803891-5         AT&T Wireless         Didzil         Paramon					. izco	09-Oct-98		Exchange
2249895 AT&T Wireless Canada 09-Oct-98 26-Mar-02  European Patent Convention 09-Oct-98 26-Mar-02	281 BR	9803891-5		AT&T Wireless	Diazii			Method for Providing
2249895         AT&T Wireless         Canada         09-Oct-98         26-Mar-02           European Patent         European Patent         09-Oct-98         AT&T Wireless         Convention         09-Oct-98	10:107					^	:	Conception of a Private
2249895         AT&T Wireless         Canada         09-Oct-98         26-Mar-02           Convention         B8308224.9         AT&T Wireless         Convention         09-Oct-98								Turicuorianity of a
2249895 A Lat Wireless Convention 09-Oct-98				·	Canada	86-DC-98	26-Mar-02	Exchange
European Patent AT&T Wireless Convention 09-Oct-98	281.CA	2249895	2249895	AIGI WIEBESS				Method for Providing
98308224.9 AT&T Wireless Convention 09-Oct-98					Total Datest			Functionality of a Private
98308224.9		-			Convention			Exchange
	281 FPC	98308224.9		AT&T Wireless	COINGING			

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Docket	Application	Patent		Country	Application Date	Grant Date	Title	
Number	Number	Number	Owner	Name			Method for Providing	
				-			Remote Emulation of the Functionality of a Private	
					00 Oct.08	22-Nov-02	Exchange	
281 MX	988391	211550	AT&T Wireless	Mexico	08-00-00		Method for Providing	
							Remote Emutation of the	
	٠				-		Functionality of a Private	
				Monto	09-Oct-98		Exchange	
281 NO	19984742		AT&I WIREIESS	INDIWAY			Method for Providing	
2							Remote Emulation of the	
	•					-	Functionality of a Private	
			000100000000000000000000000000000000000	Taiwan	12-Oct-98	26-Feb-01	Exchange	
281.TW	87116913	121508	Al&I Wireless	diwaii			Method for Providing	
						٠.	Remote Emulation of the	
		· .	-				Functionality of a Private	
			A TO T Wireless	United States	10-Oct-97	08-May-01	Exchange	
281.US	08/948497	6229885	Alai Wileiess	2000			A Method for Allowing a	
							Called Party to Allocate	<u>.                                    </u>
							Call Payment	
			000[00]00 100 100 100 100 100 100 100 100 10	Canada	29-Oct-98	23-Apr-02	Responsibility:	
282.CA	2252180	2252180	A I & I WIFEIESS	Carago			A Method for Allowing a	
							Called Party to Allocate	
	-			•			Call Payment	
			ATOT Mirelese	United States	19-Nov-97	16-Apr-02	Responsibility	
282.US	08/974394	6373931	Alai Wildiga	201110			System for Providing	
							Power to a Wireless	
				Brazil	09-Oct-98		System	•
283.BR	9803890.7		A1&1 WIREIESS	DIGE			System for Providing	
							Power to a Wireless	
			a to tall colors	Canada	09-Oct-98	01-Jan-02	System	_
283.CA	2249911	2249911	Alai Wiididaa				System for Providing	
				-		20,100	Surface Constitution of the constitution of th	
		210061	AT&T Wireless	Mexico	09-Oct-98	12-UCI-02	System for	T
283.MX	988387	710031					Providing Power to a	
				0.10.7	40.004.07	03-101-01	Wireless System	_
283 115	08/948777	6256518	AT&T Wireless	United States	10-00-01		Method and System for	_
20:02							Providing Power to a	_
				Linited States	10-Apr-01		Wireless System	<u>-</u> -
283.US.CP1	09/828859		AI&I WIREIESS	Oliliau Olarios			Method and System for	
		-					Providing Power to a	_
			AT&T Wireless	United States	15-Jun-04		Wireless System	٦
283.US.D1	10/860894					٠.		٠

		4119		Country	Application	Grant	
Docket	Application	Mumbor	Owner	Name	Date	Date	Title
Number	Number	Number	DIMO				Secure Equipment
····				i i	03-Oct-07	11-May-00	Automation Using a Personal Base Station
284.TW	86114469	110656	AT&T Wireless	alwaii	2000		Secure Equipment
							Automation Using a
	900000	5875305	AT&T Wireless	United States	09-Oct-96	23-Feb-99	Personal Base Station
284.05	2088300	201 2020				10, 20, 90	Service Transfer to a Wireless Telephone
285.CA	2202000	2202000	AT&T Wireless	Canada	07-Apr-97	Op-IMAI -O	Service Transfer to a
			ATOT Missions	Taiwan	05-May-97	25-May-98	Wireless Telephone
285.TW	86105955	92547	Alai Wirdess		,		Service Transfer to a
	000000	5845207	AT&T Wireless	United States	09-May-96	01-Dec-98	Wireless Telephone
285.US	08/644027	3043201					System and Method for
				:			Retrieving Messages From
286.BR	1877348		AT&T Wireless	Brazil	17-Dec-97		System and Method for
							Retrieving Messages From
			ATPT Mireless	Canada	20-Nov-97	13-Feb-01	a Voice Message System
286.CA	2221660	2221660	AIGH WIIGHGOO				System and Method for
	·			European Patent	70 Mar. 07		Retrieving Messages from
286.EPC	97309357.8		AT&T Wireless	Convention	16-A0N-07		System and Method for
							Retrieving Messages From
!			AT&T Wireless	Japan	10-Dec-97		a Voice Message System
286.JP	9-339534		200				System and Method for
					70 00		a Voice Message System
286 MX	9710199		AT&T Wireless	Mexico	10-060-91		System and Method for
200.00							Retrieving Messages From
			2001-101-0	Novac	10-Dec-97		a Voice Message System
286.NO	975816		A I & I WIEGS	5			System and Method for
							Retrieving Messages From
. WIT 39C	86118705	114009	AT&T Wireless	Taiwan	11-Dec-9/	11-Aug-00	System and Method for
200.14							Retrieving Messages From
				1 Inited States	17-Dec-96	11-Jun-02	a Voice Message System
286.US	08/766134	6405032	AT&T Wireless	Olinea crates			Method and Apparatus for
			•				Providing Partitioned
					•		Telecommunication
			AT&T Wireless	Brazil	26~Jun-98		Services
287.BR	9802303		5		-	•	Method and Apparatus for
							Providing Partitioned
		_			80 514 70		Services
287.CA	2239649		AT&T Wireless	Canada	04-2011-30		

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	a Oite oil and	Patent		Country	Application	Grant	Title	<del></del>
Docker	Application	Minehor	Owner	Name	Date	Date	Method and Apparatus for	j
Number	Number	Number					Providing Partitioned	· 
				Cconoan Datent			Telecommunication	
					12-Jun-98		Services	3
A7 FPC	98304671.5		AT&T WIREIESS				Method and Apparatus for	
							Providing Partitioned	
							Telecommunication	<u></u>
				lanan	24-Jun-98		Services	
. dl. 780	10-176895		AT&I WIREIESS				Method and Apparatus for	<u> </u>
							Providing Partitioned	
							Telecommunication	·
				Moxico	24-Jun-98		Services	
287 MX	985150		AT&T Wireless				Method and Apparatus for	<u>.</u>
,			.:			. • •	Providing Partitioned	
							Telecommunication	
			A T 0 T \Alirahaea	Taiwan	02-Jun-98	00-unf-20	Services	٤
287.TW	87108653	111653	Alai Wildios				Method and Apparatus ion	
							Telecomminication	
					;		Services	
			AT&T Wireless	United States	26-Jun-97		Mothod and Annaratus for	s for
287.US	08/882804		2000				Providing Partitioned	
							Telecommunication	
					40 John 02		Services	
	40/044600		AT&T Wireless	United States	10-0411-04		System and Method for	 6
287.05.01	10/04 1300						Automatic Registration	
							Notification for Over-the-Air	he-Air
					44- 111-07		Activation	
000	0703067		AT&T Wireless	Brazil	0-100-11		System and Method for	<u> </u>
280.BK	200016		-	.*			Automatic Registration	
	•			:		;	Notification for Over-ule-nin	
-	· .		ATRT Wireless	Canada	24-Jun-97	20-Mar-01	Activation	٤
288.CA	2208601	ZZOROZZ	5				Automatic Registration	5
	-						Notification for Over-the-Air	the-Air
	· .			European Faterin	45 Let 07		Activation	
0	07112008 0		AT&T Wireless	Convention	16-inc-01		System and Method for	<u>ر</u>
288.EP.C	37 1 12030.3		:			:	Automatic Registration	 : ნ :
					· ·		Notification for Over-the-Air	me-Air
: 		· .		lanan	15-Jul-97		Activation	
288.JP	188842/1997		AT&T WIREIESS	o do			System and Method for	<u> </u>
							Notification for Over-the-Air	-the-Air
		•		Moving	07-Jul-97	13-Oct-03	Activation	
288 MX	975088	216890	AT&T Wireless	Mexico				

Application         Patent Number         Country Owner         Application Date Date         Start Number States         Country Number States         Application Date States         Scient States States         Scient States St									
19973157   Number   Number   Owner	Docket	Application	Patent	:	Country	Application: Date	Grant Date	Title	
19973157   AT&T Wireless   Narway   08-Jul-97   11-Dec-98   AT&T Wireless   Taiwan   08-Jul-97   11-Dec-98   AT&T Wireless   Taiwan   08-Jul-97   11-Dec-98   AT&T Wireless   United States   15-Jul-96   13-Feb-01   AT&T Wireless   United States   30-Ocl-00   28-Aug-01   AT&T Wireless   United States   30-Ocl-00   28-Aug-01   AT&T Wireless   United States   15-Jul-96   13-Feb-01   AT&T Wireless   Och-00   Calanda   19-Sep-97   Oct-00   Calanda   AT&T Wireless   Canada   19-Sep-97   Oct-00   Calanda   AT&T Wireless   Convention   Oct-00   AT&T Wireless   Convention   Och-00   AT&T Wireless   AT&T Wireless   AT&T Wireless   AT&T Wireless   AT&T Wireless   AT&T Wireless   AT&T	Number	Number	Number	Owner	Name			System and Method for	jo (
19973157   AT&T Wireless   Noway   08-Jul-97   11-Dac-98   AT&T Wireless   Tailwan   09-Jul-97   11-Dac-98   AT&T Wireless   Tailwan   09-Jul-97   11-Dac-98   AT&T Wireless   United States   15-Jul-96   13-Feb-01   AT&T Wireless   United States   29-Jun-01   29-Aug-01   AT&T Wireless   United States   19-Jul-96   13-Feb-01   AT&T Wireless   United States   19-Jul-96   13-Feb-01   AT&T Wireless   United States   19-Jul-96   13-Feb-01   AT&T Wireless   United States   19-Jul-96   29-Jul-01   AT&T Wireless   Canada   19-Sep-97   03-Jul-01   AT&T Wireless   Canada   19-Sep-97   03-Jul-01   AT&T Wireless   Convention   07-Oct-97   22-Jun-04   AT&T Wireless   Convention   16-Jan-98   AT&T Wireless   AT&T Wire				-	•			Automatic Registration Notification for Over-the-Air	he-Air
19973157   110002482						08-Jul-97		Activation	
B6109676   96455   AT&T Wireless   Taiwan   09-Jul-97   11-Dec-98   AT&T Wireless   Taiwan   09-Jul-97   11-Dec-98   AT&T Wireless   United States   15-Jul-96   13-Feb-01   AT&T Wireless   United States   29-Jun-01   AT&T Wireless   United States   29-Jun-01   AT&T Wireless   AT&T Wireless   Canada   15-Sep-97   03-Jul-01   AT&T Wireless   Canada   15-Sep-97   03-Jul-01   AT&T Wireless   Convention   OT-Oct-87   Canada   AT&T Wireless   Convention   OT-Oct-87   Canada   AT&T Wireless   Convention   OT-Oct-87   Canada   Convention    288.NO	19973157		AT&I Wireless				System and Method for	ַסַ י	
Be109676   Se465   AT&T Wireless   Takwan   O9-Jul-97   11-Dec-38   Se109676   Se109676   Se10967   Se109687   Se109688   Se109687   Se109688   Se10968   Se10968   Se109688   Se109688   Se109688   Se109688   Se10968   Se10968   Se109688   Se109688   Se10968   Se10968   Se109688   Se10968   Se10968   Se10968   Se10968   Se10968   Se10968   Se		-						Automatic Registration Notification for Over-the-Air	on the-Air
B6109676   98465   AT&T Wireless   Tawari   Convention   15-Jul-96   13-Feb-01   13-Feb-		•				na. hif.97	11-Dec-98	Activation	
C11   09/702163   6282421   AT&T Wireless   United States   15-Jul-96   13-Feb-01	288.TW	86109676	96465	AT&T Wireless		io-io-io-io-io-io-io-io-io-io-io-io-io-i		System and Method for	for
C1   09/102163   6188899   AT&T Wireless   United States   15-Jul-96   13-Feb-01   AT&T Wireless   United States   30-Oct-00   28-Aug-01   AT&T Wireless   United States   29-Jun-01   AT&T Wireless   United States   16-Mar-04   AT&T Wireless   Brazil   03-Oct-97   O3-Jul-01   AT&T Wireless   Canada   19-Sep-97   O3-Jul-01   AT&T Wireless   Curvepaan Patent   O7-Oct-97   Convention   O7-Oct-97   AT&T Wireless   Curvepaan Patent   O7-Oct-97   Convention   O7-Oct-97   AT&T Wireless   Convention   O7-Oct-97   CONVENTIO								Automatic Registration	on A
OB1679890   6188899   AT&T Wireless   United States   15-Jul-96   13-Feb-01   13-Jul-96   13-Feb-01							Notification for Over-the-Air	-the-Air	
C1   09/702163   6282421   AT&I Wireless   United States   30-Oct-00   28-Aug-01		•		ATOT Wirelace	United States	15-Jul-96	13-Feb-01	Activation	
(1)         09/702163         6282421         AT&T Wireless         United States         30-Oct-00         28-Aug-01           (1)         09/896481         AT&T Wireless         United States         29-Jun-01           (2)         10/802492         AT&T Wireless         United States         16-Mar-04           (2)         10/802492         AT&T Wireless         Brazil         03-Oct-97           2215821         2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           2315821         2215821         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           D1         3023872.6         AT&T Wireless         Convention         16-Jan-98         23-Jun-04	288.US	08/679890	6188899	Alai Wireress	2000			System and Method for	ğ
(1)         09/102163         6282421         AT&T Wireless         United States         30-Oct-00         28-Aug-01           (1)         09/1096481         AT&T Wireless         United States         29-Jun-01         29-Jun-01           (2)         10/802492         AT&T Wireless         United States         16-Mar-04         16-Mar-04           (2)         10/802492         AT&T Wireless         Brazil         03-Oct-97         03-Jul-01           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           B7117320.8         836340         AT&T Wireless         Convention         07-Oct-97         22-Jun-04           D1         3023872.6         AT&T Wireless         Convention         16-Jan-98         22-Jun-04								Automatic Registration	יים איני
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(1)         09/702163         6282421         AT&T Wireless         United States         29-Jun-01           (1)         09/895481         AT&T Wireless         United States         29-Jun-01           (2)         10/802492         AT&T Wireless         United States         16-Mar-04           (2)         10/802492         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           2215821         AT&T Wireless         Convention         07-Oct-97         22-Jun-04           97117320.8         836340         AT&T Wireless         Convention         16-Jan-96         22-Jun-04           D1         3023872.6         AT&T Wireless         Convention         16-Jan-96         16-Jan-96				ATOT Misslone	1 Inited States	30-Oct-00	28-Aug-01	Activation	
(1)         09/896481         AT&T Wireless         United States         29-Jun-01           (2)         10/802492         AT&T Wireless         United States         16-Mar-04           (2)         10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97         03-Jul-01           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         838340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           D1         3023872.6         AT&T Wireless         Convention         16-Jan-98         Convention	288.US.C1	09/702163	6282421	Al&I WIIGIGSS	2000			System and Method for	Ď (
09/896481         AT&T Wireless         United States         29-Jun-01           10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           3023872.6         AT&T Wireless         Convention         16-Jan-98         23-Jun-04					•			Automatic Registration	ָ פֿין
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10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           3023872.6         AT&T Wireless         Convention         16-Jan-98         Convention         16-Jan-98	288.US.C1(1)	09/896481		Al&i Wireless	Ollico Compo			System and Method for	<u>.</u>
10/802492         AT&T Wireless         United States         16-Mar-04           9706687         AT&T Wireless         Brazil         03-Oct-97           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         636340         AT&T Wireless         Convention         07-Oct-97         22-Jun-04           3023872.6         AT&T Wireless         Convention         16-Jan-98         16-Jan-98								Automatic Registration	ا این
10/802492   AT&T Wireless   United States   16-Mar-04   AT&T Wireless   Brazil   03-Oct-97   AT&T Wireless   Canada   19-Sep-97   03-Jul-01   AT&T Wireless   Convention   O7-Oct-97   23-Jun-04   AT&T Wireless   Convention   16-Jan-98   AT&T Wireless   Convention   AT&T W								Notification for Over-the-Air	r-tne-A
10/802492         AT&T Wireless         Brazil         03-Oct-97           9706687         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           2215821         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         22-Jun-04           3023872.6         AT&T Wireless         Convention         16-Jan-98				ATOT Mississes	United States	16-Mar-04		Activation	
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CD1         3023872.6         AT&T Wireless         Brazil         03-Oct-97         10-Oct-97         10-						·		for Over-the-Air	
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CD1         3023872.6         AT&T Wireless         Brazil         03-Oct-97         Canada         19-Sep-97         03-Jul-01           CD1         3023872.6         AT&T Wireless         Convention         07-Oct-97         22-Jun-04		-						Telecommunication	_
9706687         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           C         97117320.8         836340         AT&T Wireless         Convention         07-Oct-97         23-Jun-04           C.D1         3023872.6         AT&T Wireless         Convention         16-Jan-98		•		ATPT Wireless	Brazil	03-Oct-97		Services	91400
2215821 AT&T Wireless Canada 19-Sep-97 03-Jul-01  European Patent Convention 07-Oct-97 23-Jun-04  European Patent European Patent AT&T Wireless Convention 16-Jan-98  CD1 3023872.6 AT&T Wireless Convention 16-Jan-98	289.BR	9706687		2000				A Method and Apparatus for Over-the-Air	919103
2215821 AT&T Wireless Canada 19-Sep-97 03-Jul-01  European Patent Convention 07-Oct-97 23-Jun-04  European Patent European Patent AT&T Wireless Convention 16-Jan-98  CD1 3023872.6 AT&T Wireless Convention 16-Jan-98								Programming of	
CD1         3023872.6         AT&T Wireless         Canada         19-Sep-97         03-Jul-01           C         97117320.8         836340         AT&T Wireless         Convention         07-Oct-87         23-Jun-04           C.D1         3023872.6         AT&T Wireless         Convention         16-Jan-98         16-Jan-98								Telecommunication	_
CD1   3023872.6   AT&T Wireless   Cariaba   Convention				cho cho	10.Sep-97	03-Jul-01	Services		
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97117320.8 836340 AT&T Wireless Convention 07-Oct-97 23-Jun-04 European Patent European Patent AT&T Wireless Convention 16-Jan-98								for Over-the-Air	
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97117320.8 836340 AT&T Wireless Convention 07-Oct-97 23-Jun-24  European Patent AT&T Wireless Convention 16-Jan-98					European Patent		7	Confice	
Buropean Patent European Patent AT&T Wireless Convention 16-Jan-98		0 00000	838340	AT&T Wireless	Convention	07-Oct-97	23-JUN-04	Method and Apparatus for	atus for
Sozas72.6 European Patent Convention 16-Jan-98	289.EPC	9/11/320.0	25000					Undating Service	
3023872.6 AT&T Wireless Convention 16-Jan-98		· · ·			Furnhean Patent			Information Stored in a	e L
3023872.6				ATRT Wireless	Convention	16-Jan-98		Mobile Station	
	289.EPC.D1	3023872.6		AIGH WINGIGS				···	•

		Datont		Country	Application	Grant	Title	
Docket	Application	ratent	Owner	Name	Date	Date	Mobile Communication	
Number	Number	Number					System and Method for	
	•						Receiving Intelligent	
		•		1100	70-1-07		Roaming Information	
ים טפי מפ	30268718		AT&T Wireless	Convention			A Method and Apparatus	
89.EPC.U2	306001 1.0						for Over-the-Air	
							Programming of	
							Telecommunication	
				nevel	08-Oct-97		Services	
01 00	275398/1997		AT&T Wireless	Jayan			A Method and Apparatus	
768.JF	2000000				•		for Over-the-Air	
							Telecommunication	
					20 000 00	07-4110-02	Services	
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289.MX	977070	2000					for Over-the-Air	
							Programming of	
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	-	·		Noway	30-Sep-97		Services	
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		00001	AT&T Wireless	Taiwan	06-Oct-97	00-Keini-20	A Method and Apparatus	
289.TW	86114585	110299	5				for Over-the-Air	
	,						Programming of	
	-						Telecommunication	
		·			08.0ct-96	19-Sep-00	Services	
9	2001378	6122503	AT&T Wireless	United States	20-20-00		A Method and Apparatus	
289.03	2001310						for Over-the-Air	
				-			Programming of	
		-					lelecommunication	·
			2001001111	United States	17-Dec-98	24-Sep-02	Services	
280115 C1	09/213416	6456843	At & Wireless				A Method and Apparatus	
203:03:01							for Over-the-Air	
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		-	ATRT Wireless	United States	08-Aug-02		Mothed and Apparatus for	
289.US.C1(1)	10/214315		Aldi Viicico			· · · ·	Testing Cellular Services in	
							a First Location From a	
							Second Location Remote	_
					17-Oct-97		From the First Location	_
296.BR	1410934		AT&T WIREIESS	17010		,   •		
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Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Name	Date	Date	Method and Annaratus for
							Testing Cellular Services in
						,	a First Location From a
							Second Location Remote
	1000	199050	AT&T Wireless	Canada	20-Oct-97	11-Sep-01	From the First Location
296.CA	721866/	75000177	AIGH WHOIGHS				Method and Apparatus for
							Testing Cellular Services in
						_	a First Location From a
				European Patent	•		Second Location Remote
208 EDC	07117041 1		AT&T Wireless	Convention	16-Oct-97		From the First Location
230.57	0111011.1						Method and Apparatus for
		•					Testing Cellular Services in
			-		-		a First Location From a
							Second Location Remote
706 17	9.286313		AT&T Wireless	Japan	20-Oct-97		From the First Location
430.31	010075						Method and Apparatus for
				•			Testing Cellular Services in
			-			•	a First Location From a
							Second Location Remote
271 000	070040	242222	AT&T Wireless	Mexico	17-Oct-97	18-Dec-02	From the First Location
Z9b.MA	2/20/10	707717	2000				Method and Apparatus for
_			•				Testing Cellular Services in
							a First Location From a
							Second Location remote
ON SOC	10074723		AT&T Wireless	Norway	13-Oct-97		From the First Location
290,NO	19914120						Method and Apparatus for
							Testing Cellular Services in
							a First Location From a
		-	·			00	Second Location Nethole
WIT APC	86115142	103067	AT&T Wireless	laiwan	15-Oct-97	10-0eb-88	Marked and Apparatus for
				<del></del>			Testing Cellular Services in
	• •	<del>.</del>					a First Location From a
							Second Location Remote
			A TO T (Alizabaca	1 Inited States	21-Oct-96	23-Feb-99	From the First Location
296.US	08/734707	5875398	Alai Wieless	2000			
							Improved Generation of
			1		20. Sen. 07		Encryption Key
297.JP	517588/1998		AT&I Wireless	Japan	10.000.00		Improved Generation of
	30111100	103186	AT&T Wireless	Taiwan	03-Oct-97	13-Sep-99	Encryption Key
Z97.1W	86114466	103100	200				Improved Generation of
297.US	08/731105	5930362	AT&T Wireless	United States	09-Oct-96	27-Jul-99	Encryption Key
11.000	06444474	147801	AT&T Wireless	Taiwan	03-Oct-97	23-Apr-02	Mobile Network
298.1W		150141					-

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Danin							Mobile Network	
							Geographic Address	
					90 100 00	31-Aug-99	Translation	
	1	E046615	AT&T Wireless	United States	08-001-80		Registration of Mobile	
98.US	1801591	2840013					Packet Data Terminals	
					06.Mav-97	23-Sep-03	After Disaster	
	2017493	2257423	AT&T Wireless	Canada	S (SIMO)		Registration of Mobile	
99.CA	2501453						Packet Data Terminals	
	, •		ATRIAMPSS	Canada	06-May-97		After Disaster	
299.CA.D1	2404922		A191 WILLIAM				Packet Data Terminals	
	·.			European Patent	76-May-07		After Disaster	
C	97922676.8		AT&T Wireless	Convention	OC-IMB) -O.		Registration of Mobile	
293.57.0							After Disaster	
			AT&T Wireless	Japan	06-May-97		Registration of Mobile	
299.JP	501587/1998						Packet Data Terminals	
					OF May 97	06-May-97	After Disaster	
<b>&gt;</b>	0810332	204997	AT&T Wireless	Mexico	00-100		Registration of Mobile	
Z99.IMA							Packet Data Terrings	
			200141141	Taiwan	14-May-97	16-Aug-99	Arrer Disaster	
VT.662	86106439	102438	AI&I WIEIESS			. *	Packet Data Terminals	:
						05-00-00	After Disaster	
		27070	AT&T Wireless	United States	10-Jun-90	2020	Registration of Mobile	
299.US	1992978	6157633	3				Packet Data Terminals	
					00 200	03-Aug-04	After Disaster	
		6771634	AT&T Wireless	United States	20-100-20		Method and Apparatus for	
299.US.D1	09/289362	201.10					Dynamic Negotiation of	
				-	45_120_QR		Protocols	_
	0800328-3		AT&T Wireless	Brazil			Method and Apparatus ion	:
300.BK	200000					20.77	Protocols	
			ATOT Wireless	Canada	15-Jan-98	19-Mar-02	Method and Apparatus for	
300.CA	2227086	2227086	Algi Wildias				Dynamic Negotiation of	
						20	Protocols	_
			AT&T Wireless	Mexico	19-Jan-98	23-301-04	Method and Apparatus for	_
300.MX	980550	221003					Dynamic Negotiation of	
		.·		Taiwan	21-Jan-98	17-Oct-01	Protocols	$\overline{}$
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200:12			ATET Wireless	United States	21-Jan-97	26-Sep-00	Negonanon of community	١ .
300.US	-290885	6125122	Alai viidios					

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<u> </u>							Method and Apparatus for Dynamic Negotiation of	
300.US.C1	09/634573	6445716	AT&T Wireless	United States	08-Aug-00	03-Sep-02	Mothed and Advaratus for	
							Dynamic Negotlation of	
300 115 C1(1)	-328443		AT&T Wireless	United States	18-Jul-02		Protocols	
							A Method and Apparatus	
	000001		ATRT Witeless	Rrazil	24-Oct-97		tor Message Transmission Verification	
	1426882		A G WHORAS	17010			A Method and Apparatus	
							for Message Transmission	
301.CA	2218211	2218211	AT&T Wireless	Canada	14-Oct-97	06-Feb-01	Verification	
				European Patent			A Method and Apparatus for Message Transmission	
	07440507 7		AT&T Wireless	Convention	24-Oct-97		Verification	
301.Er.C	9/1/05/1/						A Method and Apparatus	
							for Message Transmission	
301.JP	9-290726		AT&T Wireless	Japan	23-Oct-9/		A Mothed and Managerite	
				-		•	for Message Transmission	
	070066	206524	ATRT Wireless	Mexico	20-Oct-97	08-Feb-02	Verification	
NAT. IOC	21,000	2002				•	A Method and Apparatus	
							for Message Transmission	
301.NO	19974771		AT&T Wireless	Norway	15-Oct-97		Verification	
							A Method and Apparatus  for Message Transmission	
AT 100	06446462	108524	AT&T Wireless	Taiwan	20-Oct-97	09-Mar-00	Verification	
	90113432	10002				·	A Method and Apparatus	
					90 50 30	17 Aug 00	for Message Transmission	
301.US	08/740277	5940740	A I & I Wireless	Office States	20-00-90	SC-ROU-	A Method and Apparatus	_
				1 Inited Chafee	18-Dec-08	17-Apr-01	for Message Transmission Verification	
301.US.C1	09/215557	6219542	Alga Wireless	Oilliga Oilliga	2000		Method and Apparatus for	
							Message Transmission	
304 LIS C1/1)	09/535340		AT&T Wireless	United States	24-Mar-00		Verification	
1	OFFICE						Method for Categorization	
- <del></del>						**************************************	Wireless Communications	
-	0 0170720		ATRT Wireless	Brazil	24-Jun-97		Service Environment	
302.BK	9/10436-6		Alai Wildias				Method for Categorization	
	•			•			of Multiple Providers in a	
				(		) S Mar 03	Wireless Communications	
302 CA	2250238	2250238	AT&T Wireless	Canada	78-70U-87	20 PEN-07		-

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Docket         Application           Number         Number           303.TW         87110178           303.US         08/883111           306.BR         9800525-1           306.BR         980722           306.TW         87100967           306.US         1472506           307.BR         1892355           307.CA         2221665           307.WX         9710347           307.WX         9710347           307.US         08/777341	Patent Number 110131 6223042	Owner	Country Name	Application Date	Grant	Title
9800 9800 9801 1477 1477 971 971	110131					
	6223042		5010	24. lim.08	26-Apr-00	Method of Intelligent Roaming Using Network Information
	6223042	A I & I WIREIESS	Idiwaii	00-100-100		Method of Intelligent
	750070	AT&T Wireless	United States	26-Jun-97	24-Apr-01	roaming Using Network Information
		2000				Method and Apparatus for
		AT&T Wireless	Brazil	30-Jan-98		Serving Cell Code Assignment
						Method and Apparatus for
	0001100	AT9T Window	Canada	15. lan-98	16-Sep-03	Serving Cell Code Assignment
	222/138	Alai Wireress	Carrada			Method and Apparatus for
						Serving Cell Code
		AT&T Wireless	Mexico	26-Jan-98		Assignment
						Method and Apparatus for Serving Cell Code
	441208	AT&T Wireless	Taiwan	23-Mar-98	29-May-00	Assignment
	0031					Method and Apparatus for
				;		Serving Cell Code
	6144851	AT&T Wireless	United States	31-Jan-97	00-NON-70	Assignment
		-				Authentication for Secure
		AT&T Wireless	Brazil	18-Dec-97		Wireless Service Provision
		2000111				Method of Mutual
		_				Authentication for Secure
	2221665	AT&T Wireless	Canada	20-Nov-97	07-Jan-03	Wireless Service Provision
						Method of Mutual
	403800	AT&T Wireless	Mexico	18-Dec-97	22-Oct-99	Wireless Service Provision
	600061					Method of Mutual
		A TOT Mission	Taiwan	22-Dec-97	01-May-00	Authentication for Secure Wireless Service Provision
	7/7011	AIGI WIIGIGSS				Method of Mutual
		•				Authentication for Secure
	5875394	AT&T Wireless	United States	27-Dec-96	23-Feb-99	Wireless Service Provision
	1000					Method for Controlling
308.BR 9706413-0		AT&T Wireless	Brazil	18-Dec-97		Channel Re-Selection
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308.CA 2221820	2221820	AT&T Wireless	Canada	/A-AON-02	20-10-05	Method for Controlling
308 MX	199915	AT&T Wireless	Mexico	18-Dec-97	30-Nov-00	Channel Re-Selection
			Tollen	18 Dec-07	OR-May-01	Method for Controlling   Channel Re-Selection
308.TW   86119184	125235	Al&I Wireless	Idiwali	16-090-01	in the same	

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Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owler		27 000 08	30-Nov-99	Method for Controlling Channel Re-Selection
308.US	08/772829	5995834	AT&T Wireless	Onited States	06-297-47		Method for Controlling
208 115 C1	09/306760	6501951	AT&T Wireless	United States	07-May-99	31-Dec-02	Method for Controlling
0.000							Channel Re-Selection From a Selected Control
	. !		ATOT Michae	Inited States	30-Jul-02	· ·	Channel to an Alternative Control Channel
308.US.C1(1)	10/206963		AIGI Wildiess		70 5.4 00		Method for Controlling Channel Re-Selection
308.US.C1(2)	mailed		AT&T Wireless	United States	*0-808-07		Method and Apparatus for
							Alerting a Station in One
	٠,						Communication From a
	. !		ATOT Wireless	Brazil	18-Dec-97	•	Second Network
312.BR	1892840		AIGI WIIGIGSS				Method and Apparatus for
							Alerting a Station in One Network of a Requested
							Communication From a
÷			ATOT Missions	Canada	20-Nov-97	18-Nov-03	Second Network
312.CA	2221854	2221854	Algi Wildigg				Method and Apparatus for
							Alerting a Station in One Network of a Requested
				European Patent		•	Communication From a
			ATOT Mirologs	Convention	20-Nov-97		Second Network
312.EPC	97309352.9		Alai Wildiess				Method and Apparatus for
							Network of a Reguested
				·		··	Communication From a
			ATOT Misologe	negel.	19-Dec-97		Second Network
312.JP	9-350412		Ala Wildias				Method and Apparatus for Alerting a Station in One
			- <del></del>				Network of a Requested
							Communication From a
	•.	-	AT&T Mireless	Mexico	18-Dec-97	07-Nov-03	Second Network
312.MX	9710338	217407	2000				Method and Apparatus for Alerting a Station in One
							Network of a Requested Communication From a
	1	·	ATRT Wireless	Norway	17-Dec-97		Second Network
312.NO	19975936		Alai Wieless				

	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	<b>O</b>
8	86119517	104929	· AT&T Wireless	Taiwan	22-Dec-97	04-Dec-99	Method and Apparatus for Alerting a Station in One Network of a Requested Communication From a Second Network	paratus for in in One equested From a
0	08/777336	6230009	AT&T Wireless	United States	.27-Dec-96	08-May-01	Method and Apparatus for Alerting a Station in One Network of a Requested Communication From a Second Network	paratus for in in One squested From a
	09/740181	6459897	AT&T Wireless	United States	18-Dec-00	01-Oct-02	Method and Apparatus for Alerting a Station in One Network of a Requested Communication From a Second Network	paratus for on in One equested From a
	10/241432		AT&T Wireless	United States	12-Sep-02		Method and Apparatus for Alerting a Station in One Network of a Requested Communication From a Second Network	paratus for on in One squested From a
1	1893450		AT&T Wireless	Brazil	18-Dec-97		Method of Wireless Retrieval of Information	ess rmation
' '	2221666		AT&T Wireless	Canada	20-Nov-97		Method of Wireless Retrieval of Information	ess rmation
	97121958.9		AT&T Wireless	European Patent Convention	12-Dec-97		Method of Wireless Retrieval of Information	ess rmation
	9-351020		AT&T Wireless	Japan	19-Dec-97		Method of Wireless Retrieval of Information	ess rmation
1 .	9710240		AT&T Wireless	Mexico	17-Dec-97		Method of Wireless Retrieval of Information	ess rmation
	19975935		AT&T Wireless	Norway	17-Dec-97		Method of Wireless Retrieval of Information	ess rmation
,	86119180	105649	AT&T Wireless	Taiwan	18-Dec-97	17-Dec-99	Method of Wireless Retrieval of Information	ess
1 -	08/777983	6493430	AT&T Wireless	United States	24-Dec-96	10-Dec-02	Method of Wireless Retrieval of Information	ess
' '	10/419098		AT&T Wireless	United States	09-Jun-03		Method of Wireless Retrieval of Information	ess
1	1767500		AT&T Wireless	Brazil	03-Dec-97		Method and Apparatus for Data Network Call Processing	paratus for all
- J	100,000		אומו זייינונסס					

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	Title	Method and Apparatus 13	Processing	Method and Apparation 15:	Processing	Method and Apparatus for	Data Network Call	Processing	Method and Apparated to	Processing	Method and Apparatus for	Processing	A Method for Time-	Based on a Recipient	Location	A Method for Time-	Stamping a Message Based on a Recipient	Location	Method for Time-Starriping	Recipient Location	A Method for Time-	Stamping a Message	Based on a Recipient	Location Location	a Message Based on a	Recipient Location							
Grant	Date	•	01-Jan-02							26-Sep-01				04-Mar-02		12-Sep-00		17-Aug-04					· · · ·		ļ		-		·		,	04-Mar-04	
Application	Date		10-Nov-97			18-NON-71		05-Dec-97		02-Dec-97		7004.	2500-50	03-Dec-97		00-Dec-96		30-Nov-99			77 May 08	OG-KBIAL-17		27-Apr-98	╀		06-YEM-22		<del></del>	27-May-98		28-May-98	
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		Owner		AT&T Wireless		AT&T Wireless			AI&I WITEIESS		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		÷	AT&T Wireless			AT&T Wireless		AT&T Wireless			A TO T IAlizologe	AIG! Wifeless	AT&T Wireless	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Patent	Number		2220707							204379				143991		6118778		6778527														219273
	Application	Number		2220707			97309093.9		2306751	: :	979392		19975612		86118162		08/762550	· · · ·	09/451401			0801486-2	2001006		2235979			98304082.5			10-145288		984246
	Docket			70			318.EPC 9		318.JP 2		318.MX		318.NO		318.TW		318.US		318 US C1			0	332.BK		332 CA			332.EPC			332.JP		332.MX

Docket	Application	Patent		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
							A Method for Time-
	•						Stamping a Message
332.NO	19982385	316993	AT&T Wireless	Norway	26-May-98	19-Jul-04	Location
							Method for Time-Stamping
							a Message Based on a
332.1W	87108312	111946	AT&T Wireless	laiwan	28-May-98	13-Jun-00	Recipient Location
							Method for Time-Stamping
332.US	08/868401	6239719	AT&T Wireless	United States	03-Jun-97	29-May-01	a Message Based on a Recipient Location
							Method for Time-Stamping
332116 C4	. 700300/00		ATOT Mission	1 Inited Ctates	A A A C O 4		a Message Based on a
305.00.01	03/02/034		Atat Wildiess	Offiled Otales	02-MM-00		recipient Location
							Method and System for Providing Data
	-				•		Communication With a
333.BR	9806495-9		AT&T Wireless	Brazil	28-May-98		Mobile Station
							Method and System for
							Providing Data
		• .					Communication With a
333.CA	2236231	2236231	AT&T Wireless	Canada	30-Apr-98	30-Oct-01	Mobile Station
			-				Method and System for
		-					Providing Data
333 05	00000001	20071	A TOT Mississe	, com	22 1421.08	12 Aug 02	Communication With a
333.UE	96304061.7	0981/086.3	Alai Wireless	Germany	22-Mdy-90	co-fine-ci	Mobile Station
							Method and System for
		•	•	Fironean Patent			Communication With a
333 EPC	98304081 7	883313	AT&T Wireless	Convention	22-Mav-98	13-Aug-03	Mobile Station
						·	Method and System for
							Providing Data
i (				i		(C)	Communication With a
333.FI	98304081.7	883313	AI&I Wireless	riniano	22-May-96	13-Aug-us	Mobile Station
						•	Method and System for
	•			-			Comminication With a
333 EB	98304081 7	883313	AT&T Wireless	France	22-Mav-98	13-Aug-03	Mobile Station
1	2000000	2000					Method and System for
							Providing Data
	·.						Communication With a
333.GB	98304081.7	883313	AT&T Wireless	Great Britain	22-May-98	13-Aug-03	Mobile Station
	-						Method and System for
333 10	154083/1008		AT&T Wireless	nanal.	03-Jun-98		Communication With a
	2000						

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Pookot	Application	Patent		Country	Application	Grant	Title	
Number	Number	Number	Owner	Name	Date		Mobile Station	
		•					to the dead Cyclom for	
							Metitod and System St.	
				•			Communication With a	
				ŀ	90 5:1	08-jan-03	Mobile Station	
222 MY	984353	212436	AT&T Wireless	Mexico	01-100-10		Method and System for	
SSS:WIN			•			•	Providing Data	
						٠.	Communication With a	
			ATRT Wireless	Norway	26-May-98		Mobile Station	
333.NO	19982384		Consultation of the consul				Method and System to	
							Providing Data Communication With a	
					22 May 08	13-Aug-03	Mobile Station	
333 CE	98304081.7	883313	AT&T Wireless	Sweden	06-Ypini-22	8	Method and System for	
10.500							Providing Data	
					20 1100	17-Apr-01	Mobile Station	
-	07108311	123686	AT&T Wireless	Taiwan	20-Way-90		Method and System for	
333.1W	07 106311						Providing Data	
					20 11	21_May_02	Mobile Station	
	00/000000	6393014	AT&T Wireless	United States	03-000-50	2 (OINI-1 2	Method and System for	_
333.03	2000000						Providing Data	
-						:	Communication With a	
			AT&T Wireless	United States	12-Apr-02		Mobile Station	· T
333.US.C1	10/120548					,	Deviding Data	<u>.</u>
<u>.</u>						·	Communication With a	
•			A TOT Mirologo	United States	10-Sep-04		Mobile Station	
333.US.C1(1)	mailed.		Algi Wildigas				System and Method for	
· ·			AT&T Wireless	Brazil	31-Mar-98		Processing Dropped Calls	Ť
334.BR	9801221-5				00	30,004.03	System and Method for Processing Dropped Calls	
224 CA	2231938	2231938	AT&T Wireless	Canada	12-Mar-90		of bothod for	
27:00				European Patent	18-Mar-98		System and Metroo 101 Processing Dropped Calls	$\neg$
334.EPC	98302011.6		AT&T Wireless	Converigori	IO-IMEI OC		System and Method for	-
			AT&T Wireless	Japan	09-Apr-98		Processing Dropped Calls	Т
334.JP	96520/1998		5				System and Method for	
334.MX	982578		AT&T Wireless	Mexico	02-Apr-98		Processing proposed	]
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				Country	Application	Grant	
Docket	Application	Number	Owner	Name	Date	Date	Title
					07_Apr.08	,	System and Method for Processing Dropped Calls
334.NO	19981596		AT&I Wireless	INDIWAY	00-100-10		System and Method for
· · · · · · · · · · · · · · · · · · ·	03405000	414030	AT&T Wireless	Taiwan	03-Apr-98	13-Jun-00	Processing Dropped Calls
334.1W	97 103037	608111				•	Apparatus for Providing
	212	6217202	AT&T Wireless	United States	29-Jul-97	06-Nov-01	Enhanced Functionality to a Mobile Station
336.05	08/902373	0314303	Algi Wildigs	COUNTY TO SOUTH			Method for Designing
							Wireless Communications
				Cototo Potici	22 Doc 07	05-Nov-02	Cell Sites Using Uplink
340.US	08/996764	6477376	AT&T Wireless	Onited States	75-Dec-87	00-100-02	A Method and System for
							Optimizing Performance of a Mobile Communications
311076	08/006486	6603966	AT&T Wireless	United States	23-Dec-97	05-Aug-03	System
346.03	0000000	20000					A Method and System for
							Optimizing Performance of a Mobile Communications
7001076	40/207668		ATRT Wireless	United States	02-Dec-02		System
342.03.01	10/30/000		2000				Method and System for
							Delivering a Voice Mail
							Notification to a Private
	•				70 770	11	Base Station Using Central
346.US	08/838582	6014559	AT&T Wireless	United States	10-Apr-9/	00-upr-11	Mathed and Apparation for
							Voice Mail Sharing
						v	Between Wired and
347116	66680		AT&T Wireless	United States	04-Dec-97		Wireless Telephones
341.03	60000						Method for Locating a
352.BR	9801756-0	-	AT&T Wireless	Brazil	02-Jun-98		Mobile Station
		2225082	AT&T Mireless	Canada	27-Apr-98	29-Jun-04	Method for Locating a Mobile Station
332.00	7080577	705057				:	A Method for Locating a
352 MX	984355	207198	AT&T Wireless	Mexico	01-Jun-98	14-Mar-02	Mobile Station
T Cuc	94109343	116657	AT&T Wireless	Taiwan	28-May-98	24-Oct-00	A Method for Locating a Mobile Station
332.1W	07 100313	2001		1 Inited Ctoton	02_tip_07	26.00-00	Method for Locating a
352.US	08/868402	6167274	A I & I Wireless	Office States	1010000		Customized On-Line User
353.CA	2275186	2275186	AT&T Wireless	Canada	14-Oct-98	16-Dec-03	Gulde
			and or William	European Patent	14-Oct-98	·	Customized On-Line User Guide
353.EPC	98953442.5		Alal Wieless				

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		ine User		ine User		Customized On-Line User	Guide Customized On-Line User	0.1	A Method and Apparatus for Filtering Packets Using	cessor	Apparatus for Filtering Packets Using a Dedicated	of order	Method and Apparatus for Filtering Packets Using a	essor	Method and Apparatus for Fiftering Packets Using a	essor	Wireless	و	User Assisted Wireless	Fraud Detection	VIII GIGGS	Iser Assisted Wireless		User Assisted Wireless	LO.	User Assisted Wireless	System and Method for	Processing Dropped Calls	System and Method for Processing Dropped Calls	System and Method for	Processing Dropped Calls
	Title	Customized On-Line User		Customized On-Line User Guide		Ized On-I	ized On-		od and A sring Paci	a Dedicated Processor	Apparatus for Filtering Packets Using a Dedic	sor	d and Apl	Dedicated Processor	d and Ap	Dedicated Processor	User Assisted Wireless	Fraud Detection	Assisted	Fraud Detection	User Assisted w Fraud Detection	Assisted	Fraud Detection	Assisted	Fraud Detection	User Assisted W	on and h	Sessing D	tem and tessing D	tem and	cessing [
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	Date					•	04-Jun-02	21-Sep-04		23-Sep-03		18-Jul-00		11-Nov-03													12-May-00		De Moy 01	0-NON-0	
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}	Application	3	14-Oct-98		14-Oct-98		22-Oct-97	26-Mar-02		20-Oct-98		23-Oct-97		26-May-00			30-2ep-05	10-hin-98		21-May-98		86-Jul-98	08-1110-98	_	05-Jun-98	-	09-Jun-98		31-Mar-90		
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		Owner	reless		ireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless	AT&T Wireless		AT&T Wireless		AT&T Wireless	and Mirotoce	Mileiga	AT&T Wireless	AT&T Wireless	
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		Docket	Mainba	3.JP		53.MX		53.US	153.US.C1		356.CA		356.US		25611S C1	50.55		356.05.01(1)		337.BK	257 EPC		357.JP	767 147	337.YM	357.NO		357.TW	365 BR	1	365.CA

		+ 1000		Country	Application	Grant		
Docket	Application	Falent	Owner	Name	Date	Date	5	
Number	Number	Number			80 224		System and Method for Processing Dropped Calls	
365.JP	96519/1998		AT&T Wireless	Japan	05-100-50		System and Method for	
			AT&T Wireless	Mexico	02-Apr-98		Processing Dropped Calls System and Method for	
365.MX	982579				07.4nr.98		Processing Dropped Calls	
365.NO	19981595		AT&T Wireless	Norway	25 104-10		System and Method for	
L	08302012.4		AT&T Wireless	Sweden	18-Mar-98		System and Method for	
365.5E	90304012.4		AT&T Wireless	Taiwan	03-Apr-98	27-Mar-00	Processing Dropped Calls	
365.TW	87105091	108902	200	000	00.405.97	30-Nov-99	System and Method for Processing Dropped Calls	-
365.US	08/838659	5995830	AT&T Wireless	United States			High Bandwidth Delivery	
				1 Inited States	12-Dec-97	13-Mar-01	Airborne Passengers	
373.US	1710280	6201797	A1&1 Wireless				High Bandwidth Delivery	
					. 0 377 67	_	Airborne Passengers	
	40/200040		AT&T Wireless	United States	13-Mar-03		A Method and Apparatus	
373.US.R1	10/303010						for Determining Billing	
					. !		Services	
			AT&T Wireless	United States	17-Aug-98		Mobile Station Roaming in	
391.US	866601						a Multiple Service Provider	
				1 Inited States	17-Aug-98	13-Feb-01	Area	<u>.</u>
392.US	850164	6188897	AT&T Wireless	Olinea control			Mobile Station Roaming in	
			•	Sofoto Poticio	15-Sep-00	22-Oct-02	Area	
392.US.C1	2132166	6470182	AT&T Wireless	Onlied States			Method and Apparatus for Providing a Hold	
							Termination Message	
					i d	00-Mar-04	Communications Network	
1	100000	6704565	AT&T Wireless	United States	23-Dec-97		Method and Apparatus for	
394.US	C00/86/80					` .	Providing Calling Number Identification Alias in a	
					24-Nnv-98	26-Feb-02	Communications System	_
<b>5</b>	2254393	2254393	AT&T Wireless	Canada			Method and Apparatus for	
402.00							Identification Alias In a	
				Germany	14-Dec-98	09-May-01	Communications System	٦
402.DE	98123490.9	69800769	AI&I WITEIESS					
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Title	Method and Apparatus for	Identification Alias in a	Method and Apparatus for	Providing Calling Number	Identification Alias in a	Communications System	Method and Apparatus for	Providing Calling Number	Identification Alias in a	Communications System	Method and Apparatus for	Providing Calling Number	Communications System	Method and Apparatus for	Providing Calling Number Identification Alias in a	Communications System	Methods and Systems for	Managing the Routing of	Packets Over a Hybrid	Network	Methods and Systems to	Managing me rooming or	Network	Methods and Systems for	Managing the Routing of	Packets Over a Hybrid	Network	Methods and Systems for	Managing the Routing of	Notice Over a 17 cm	Methods and Systems for	Managing the Routing of	Packets Over a Hybrid	Network	Aircraft Cockpit Telephony	A Method and Apparatus	for Updating Address LISTS	
Grant Date			09-May-01			09-May-01				09-May-01			31-Jul-02		٠.	09-Dec-03																			18-Nov-03		23-Sep-03	
Application Date			14-Dec-98			14.Dec-98	200.00			14-Dec-98			44 000.08	06-090-41		. CO 1111-00	02-301-05	•	•••	10-Dec-98			6 1	17-Dec-98			16-Dec-98				19-Dec-97			14-Dec-01	21-Nov-01		20-Oct-98	
Country	Mail C	European Patent	-				rrance			Crost Britain	פובפו חוומווו			Mexico		00000	United States			Canada			European Patent	Convention			Movico	SOLVOIN			United States			Linited States	United States	OTHER States	Canada	
	Owner		AT&T Wireless				AT&T Wireless		•		AT&T Wireless			AT&T Wireless		,	AT&T Wireless			ATOT Mirelace	Alal Wildias			AT&T Wireless				AI&I WIREIESS			AT&T Wireless			1	AT&T Wireless	AT&T Wireless	AT&T Wireless	
Patent	Number		010000				926910				926910			209390			6662006																			6650897	2272056	22.4.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
Application	Number	· .		98123490.9		· ·	98123490.9				98123490.9			9810631			10/188521	1000101			2255475			00070700	98124229			9810839				08/994831			10/017042	1918499	9900100	חכוו///
Docket	Number			402.EPC 9			402 ER				402 GB			AN2 MX			7001.007	402:03:01			405.CA				405.EPC	•		ADS MX	Val.CO+			405.US			405.US.C1	408.US.C1		- 144 T

41100		Country	Application	Grant	
Number	Owner	Name	Date	Date	Title
i and in a					for a Packet Filter Processor
0000	ATRT Wirelose	United States	23-Oct-97	05-Dec-00	Method and Apparatus for Updating Address Lists for a Packet Filter Processor
00000				·	Method and Apparatus for Automatically Providing Location-Based Information Content on a
6580914	AT&T Wireless	United States	17-Aug-98	17-Jun-03	Wireless Device
6427071	AT&T Wireless	United States	08-Dec-98	30-Jul-02	Apparatus and Method for Providing Transporting for a Control Signal
6256735	AT&T Wireless	United States	17-Aug-98	03-Jul-01	Method and Apparatus for Limiting Access to Network Elements
6134188	AT&T Wireless	United States	23-Apr-01	25-Dec-01	Method and Apparatus for Limiting Access to Network Elements
	AT&T Wireless	United States	29-Dec-99		System and Method for Integrating Call Delivery for Fixed-Site and Mobility Services
	AT&T Wireless	European Patent Convention	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
	AT&T Wireless	Japan	18-Mar-03	·	Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
	AT&T Wireless	Patent Cooperation Treatv	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
6141545	AT&T Wireless	United States	22-Jan-98	31-Oct-00	Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phone
	AT&T Wireless	United States	29-Apr-03		Remote Call Forwarding of Telephone Calls From Cellular Phone
	6580914 6256735 6334188 6141545		AT&T Wireless   AT&T Wireless United States 23-Oc AT&T Wireless United States 17-Au  AT&T Wireless United States 17-Au  AT&T Wireless United States 17-Au  AT&T Wireless United States 29-D  AT&T Wireless Japan 18-S  AT&T Wireless Japan 18-S  AT&T Wireless United States 22-U  AT&T Wireless United States 22-U  AT&T Wireless United States 22-U  AT&T Wireless United States 29-A  AT&T Wireless United States 29-A	AT&T Wireless United States 23-Oct-97 00  AT&T Wireless United States 17-Aug-98 17  AT&T Wireless United States 17-Aug-98 0  AT&T Wireless United States 23-Apr-01 2  AT&T Wireless United States 23-Apr-01 2  AT&T Wireless United States 29-Dec-99	

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·	Title	Method and System for	Telephone Calls From an	IP Connection	Method of Notifying a	Wireless Subscriber as to	Call Payment	Responsibilities	Method of Notifying a	Wireless Subscriber as w	Call Pending	Aircraft Cabin Telephony	Test Unit	Apparatus and Method for	Batch Processing of	Wireless Financial	Mothod for Providing	Alternative Network-	Associated Service	Address Mobile	Registration	Method for Providing	Alternative Network-	Associated Service	Address Mobile	Registration	Method and Apparatus for	Providing Centralized Onc.	Automatic Diagnostic for	Detection of Interference in	Wireless Communication	System	System for Securing	Inbound and Outbound	Data Packet riow in a	Computer Idemory	Apparatus and Method for	Optimizing Wireless Financial Transactions	
	Grant Date			27-May-03				04-Mar-03								1-1-0	09-rep-99										·			<u>.</u>		10-Aug-04			•			25-Mav-99	
	Application Date			18.Sep-00				19-May-99		-	•	10-Oct-02	. OC-010-00	AD-ROU-CZ		,	22-Sep-95	•			11-hin-99		· .			07-Jul-04			19-May-99	•		10-Aug-01				19-May-99		22 Con 05	25-35b-37
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		Owner			AT&T Wireless			AT 9.T Mirelose	Alai Wildias			AT&T Wireless		AT&T Wireless			AT&T Wireless					AT&T Wireless				ATPT Windlace	Atal Wildias		AT&T Wireless			AT&T Wireless	Algi vviigiga			AT&T Wireless			AT&T Wireless
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	Docket	Number			123.US.CP1				424.US			13 6 64	424.03.01	425 US C1				427.US				428.US	2000				428.US.C1		011007	423.03			430.US.C1				431.03		433.US

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Dec	Docket	Application	Patent		Country	Application Date	Grant Date	Title
C1   975473   AT&T Wireless   United States   07-Jan-00   O6-Jan-04   O6-Jan	Number	Number	Number	Owner	2			System and Method for the
C1   975473   AT&T Wireless   United States   07-Jan-00   OF-Jan-04   OF-Jan-05   OF-Jan-06   OF-Jan		-				-		Ose of Orginal Traffic
09/479066   AT&T Wireless   United States   07-Jan-00   S   S   S								Networks for Transmission
094479066         AT&T Wireless         United States         21-Jan-00         06-Jan-04         S           09489152         6675211         AT&T Wireless         United States         21-Jan-00         06-Jan-04         S           0975473         AT&T Wireless         United States         31-Aug-99         30-Sep-03         P           100644641         AT&T Wireless         United States         19-Aug-03         P           08/647299         5891410         AT&T Wireless         United States         12-Aug-03           1         AT&T Wireless         United States         12-Aug-03           2         AT&T Wireless         United States         12-Aug-03           1         AT&T Wireless         United States         17-Jun-09           2         AT&T Wireless         United States         17-Jun-09           2         AT&T Wireless         United States         17-Jun-09					Cototo Letter	. 00-nel -70		of R-Data Packets
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09/802872         AT&T Wireless         United States         27-Oct-99         24-Jun-03           21         -454817         AT&T Wireless         United States         10-Jun-03         24-Jun-03           2026245         AT&T Wireless         United States         17-Jun-99         17-Jun-99           2333647         AT&T Wireless         Brazil         04-Jul-00           231567         AT&T Wireless         Canada         07-Jul-00				ATPT Mireless	United States	12-Mar-01		Communication Device
21         454817         AT&T Wireless         United States         27-Oct-99         24-Jun-03           21         454817         AT&T Wireless         United States         10-Jun-03           2026245         AT&T Wireless         United States         17-Jun-99           147314         AT&T Wireless         Brazil         04-Jul-00           2313647         AT&T Wireless         Canada         07-Jul-00	443.US	09/802872		Alai wiidida	2000			Method and Apparatus for
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Title	Method for Contacting a Subscriber to Multiple Wireless Bearer Services	Method for Contacting a	Subscriber to Multiple	Meters Dearer Service	Subscriber to Multiple	Wireless Bearer Services	Antenna Support Structure	Antenna Support Structure	(design)	ISUP Talkpath to an IP	Method for Diverting an	ISUP Talkpath to an IP Talkpath	Method for Automatically	Programming a Wireless	Telephone With a Voice	Number	Method for Automatically	Programming a Wireless	Telephone With a Voice	Mail System Access	Number	Programming a Wireless	Telephone With a Voice	Mail System Access	Number	Method for Automatically	Programming a Wireless	Mail System Access	Number	Method for Automatically	Programming a Wireless	Mail System Access	Tarin Street
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Docket	Number	446.EPC		, OT 377			446.US	447.US	2118		451.US.C1		451.US.C1(1)				452.BR					452.CA				452.EPC				452.JP			452.KR

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Title	Number	Method for Automatically	Programming a Wireless Telephone With a Voice	Mail System Access	Number	Method for Automatically	Programming a Wireless	Telephone With a Voice	Number	Aircraft Data	Communications Services	for Users		(	Aircraft Data Services	System and Method for	Airhorne and Ground-	Based Entities	Aircraft Data	Communications services	IOI USEIS	Aircraft Data Services	Method and Apparatus for	Data Communication	American Terrestrial	System	Method of Apparatus for	Use in Forwarding Calls Intended for Roaming	Subscriber Units	formation for the second	Platforms	Floating Intrusion Detection	Platforms	#0#00 CTCC
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Title	Testing Methods and Apparatus for Wireless Communications	Monitoring Network Performance Using Individual Cell Phone Location & Performance	Information Method and Apparatus for	Use in Providing a Discounted Call Rate for Wireless Communications	Method and Apparatus for Use in Providing a Discounted Call Rate for	Wireless Communications	Method and Apparatus for Use in Providing a Discounted Call Rate for Wireless Communications	Method and Apparatus for Use in Providing a Discounted Call Rate for	Wireless Communications Method and Apparatus for	Use in Providing a Discounted Call Rate for Wireless Communications	Method for Registering With a Communication Service	Method for Registering With a Communication Service	Method for Registering With a Communication Service	Method for Registering With a Communication Service	Method for Registering With a Communication Service
Grant Date				• .						28-Oct-03		16-Mar-04			
Application Date	28-Nov-00		21-Dec-00	02-Aug-00		02-Aug-00	21-Dec-01		07-Aug-00	25-Aor-00	05-Mav-00	19-Apr-00	13-Mar-00	27-Apr-00	01-May-00
Country Name	ψ <sub>0</sub>		United States	Canada	n Patent	Convention	Hong Kong		Japan	United States	Bra7il	Canada	European Patent Convention	Japan	Taiwan
Owner			AT&T Wireless	AT&T Wireless		AT&T Wireless	AT&T Wireless		AT&T Wireless	ATST Mississes	ATRI Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
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AT&T Wireless United States 07-Jun-00 to Patent Cooperation 31-Jul-02	615485	6577723	Al&i Wireless	Olinco Oracos			System and Method of
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AT&T Wireless   Patent Cooperation   AT&T Wireless   Treaty   AT&T Wireless   United States   01-Aug-01   AT&T Wireless   Canada   20-Dec-01   AT&T Wireless   Treaty   Cooperation   Cooperation   AT&T Wireless   Treaty   Co-Dec-01   AT&T Wireless   United States   17-Sep-04   AT&T Wireless   AT&T Wi			ATRT Wireless	United States	00-Jun-00		to a Service Node
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AT&T Wireless							Controlling Facsimile
Patent	00100	-	AT&T Wireless	Canada	20-Dec-01		Information
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209         AT&T Wireless         United States         Z1-Dec-00           AT&T Wireless         United States         17-Sep-04           AT&T Wireless         Argentina         18-Oct-01           Cooperation         Cooperation         19-Oct-01           AT&T Wireless         Treaty         19-Oct-01							Controlling Facsimile
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AT&T Wireless Office Cratco 1 18-Oct-01  Patent Cooperation 19-Oct-01  AT&T Wireless Treaty 19-Oct-01				United States	17-Sep-04		Information
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Patent Cooperation AT&T Wireless Treaty 19-Oct-01	10400F		AT&T Wireless	Argentina	18-Oct-01		Vehicle
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AT&T Wireless Treaty 19-Oct-01				Patent   Cooperation	•		of Wireless Data From
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i.	Method of Sharing	Revenue for Transmission	of Wireless Data From a	System and Method for	Automatically Transferring	a Call From a First	Telephone to a Designated	Telephone in Close	Proximity	System and Method for	Using a Short-Range	Kadio Link to Directly	Telephones Connected	Through a	Primary Communications	Network	Telematics Services	Electronics for Memory and	I/O Functions	Methods and Systems for	Using Network Capabilities	to Correct Phone Displays	Multiple Handset Cradie	Assembly Suctome for	Methods and Systems for	Aircraft	Telecommunications	Wiring	Activation and Remote	Modification of Wileless	Network Context	A Method for Programming	a Mobile Station Using a	Permanent Mobile Station	Identifier	Method and Apparatus ion	Alert Messaging for Audio	Alerting Capable Terminals	·
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				·	03-Oct-01	-	of a Mobile Device	
520 CA	2358175		AT&T Wireless	Callada	2000		System and Method for	
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520.EPC	1994191.3		AIGI WIEIESS				System and Method for	
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520.JP	2002-558719		AT&T Wireless	Japan			System and Method for	
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520.US	09/707593	6591098	Al&i Wireless				System and Method for	
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			AT&T Wireless	United States	08-Apr-03		System and Method for	
520.US.C1	10/409770						Using a Temporary	
							Electronic Serial Number	
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				clours.	05-Nov-01		of a Mobile Device	
520.VZ	2001-002318		AT&T Wireless	Veliezudia			Using a Wireless Cookie to	
				Patent			Deliver Mobile-Based	
				Cooperation	12-hin-02		Location Information	_
525.PCT	PCT/US02/18612		AT&T Wireless	ireary				
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Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title	
			AT&T Wireless	United States	12-Jun-01		Using a Wireless Cookie to Deliver Mobile-Based Location Information	kie to
525.05	09/6/9349						A Short Message Point-to- Point Protocol Gateway Having a Standard	nt-to- ay
527.CA	2428440		AT&T Wireless	European Patent	16-Nov-01		An SMPP Gateway Having a Standard Interface	aving
527.EPC 527.PCT	1994087.3 PCT/US01/43671		AT&T Wireless	Patent Cooperation Treaty	16-Nov-01		An SMPP Gateway Having a Standard Interface	laving
527 US1	09/714036		AT&T Wireless	United States	16-Nov-00		An SMPP Gateway Having a Standard Interface	laving
527.US2	09/714035		AT&T Wireless	United States	17-Nov-00		Method of Delivering Short Messages Using an SMPP Gateway With a Standard Interface	SMPP
527 1153	09/714034		AT&T Wireless	United States	17-Nov-00		Method of Binding to a SMPP Gateway	e .
200.130	20071		AT&T Wireless	United States	17-Nov-00		A System and Method for Performing Anti-Spam Control Using a SMPP Gateway	ρε <del>ς</del>
527.034	09/7 14035		AT&T Wireless	United States	17-Nov-00		A System and Method for Performing Throttle Control in a SMPP Gateway	Control
221.035 527 1198	00/714031		AT&T Wireless	United States	16-Nov-00		A System and Method of Performing Flow Control in a SMPP Gateway	of of other of the
528.PCT	PCT/US02/11450		AT&T Wireless	Patent Cooperation Treaty	12-Apr-02		Scrolling Display for Mobile Telephone Text Messaging	Mobile Isaging Mobile
528.US	10/120475	6799033	AT&T Wireless	United States	10-Apr-02	28-Sep-04	Telephone Text Messaging Network Access Using	saging
530.US	09/968528		AT&T Wireless	United States	02-Oct-01		Network Identification	ا ج
531.AR	10104906		AT&T Wireless	Argentina	18-Oct-01		Shared-Kevenue billing System for Transmission of	ssion of
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09/742313		AT&T Wireless	United States	21-Dec-00		Drangid Phone Service for
						Both Wired and Wireless
						Telecommunication
10105972		AT&T Wireless	Argentina	19-Dec-01		Devices
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		AT&T Wireless	Convention	21-Dec-01	-	Devices
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40/222248		AT&T Wireless	United States	17-Dec-02		Devices
10/322210						Sharing of Wireless Telephone Services for a
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						Telephone Services for a
						Personal Wireless
						Telephone and a Venicular
		ATOT Missione	United States	03-Oct-01		Wireless Telephone
09/971080		Alai Wileigas				Intelligent Network
			-			Selection Based on Quality
		-				of Service and Applications
						Over Different Wireless
	-	ATETWirelace	United States	29-Dec-00		Networks
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4         AT&T Wireless         Canada         22-Jan-d3         Initial Initial States		Number	Number	Owner	Maille			Network	
AT&T Wireless   Canada   22-Jan-0.3   Infinited States   17-Jan-0.3   Infinited States   17-Jan-0.3   Infinited States   17-Jan-0.3   Infinited States   19-Dec-0.1   Infinited States   19-Dec-0.1   Infinited States   19-Dec-0.1   Infinited States   19-Dec-0.1   Infinited States   20-Nov-0.1   Infinited States   20-								Inter-Carrier Sort Text Message Delivery	
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AT&T Wireless					ohile o	20-Nov-01	,	Wireless Communication	
AT&T Wireless	8	20-2001		AT&T Wireless	5			System for Providing	
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2278535         AT&T Wireless         Canada         30-Jan-98         31-Dec-02           8.3         956733         AT&T Wireless         Convention         30-Jan-98         04-Aug-04           AT&T Wireless         Japan         30-Jan-98         04-Aug-04								Operation for Reducing	
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	Wireless Communications System and Method of Operation for Reducing Fraud	Wireless Communicatio System and Method of Operation for Reducing Fraud	Wireless Communicatio System and Method of Operation for Reducing Fraud	Real-Time Network Analysis and Perfor Management	Real-Time Dri Analysis and Management	A Method and Appar Manage a Resource	A Method and Appa Store, Access, and Forward Messages	SACCH-Based Fast Control for GERAN Edge Radio Access Network)	Hotline Routing of Pre- Activated GSM Subscribers Using Pse MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pse MSISDNs	Activated GSM Subscribers Using Pse MSISDNs	Hotline Routing of Pre Activated GSM Subscribers Using Pse
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2003-7012902   AT&T Wireless   South Korea   03-Apr-02   E								Methods and Apparatus I Mobile Station Location
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C Cooperation         Cooperation         03-Apr-02         P CT/US02/10791         P CT/US02/10791         P CT/US02/10791         P CT/US02/10791         P CT/US02/10791         P CT/US02/10791         P COOPERATION         P	565.MX	PA/a/2003/009011		2000	Patent			Methods and Apparatus
PCT/US02/10791					Cooperation	•		Mobile Station Location
10/473926         AT&T Wireless         United States         08-Mar-04           1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           mailed         AT&T Wireless         Japan         17-Oct-03           T         Potnus         Treaty         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02	565.PCT	PCT/US02/10791		AT&T Wireless	Treaty	03-Apr-02		Makila Accional Notice
10473926				100	Inited Clates	08-Mar-04		Mobile-Assisted Network Location System (MNLS) Overview
1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         United States         04-Mar-02           10/091047         AT&T Wireless         United States         04-Mar-02	565.US	10/473926		Al & I Wireless	OIIII OI GIGG			Methods and Apparatus
1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Japan         17-Oct-03           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02								Anonymous User Identification and Content
1839637         AT&T Wireless         United States         United States         United States         United States           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           European Patent         16-Apr-02           AT&T Wireless         Japan         17-Oct-03           Cooperation         AT&T Wireless         Treaty         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           T         AT&T Wireless         United States         04-Mar-02		-	÷			60		Personalization in Wirei
2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Japan         17-Oct-03           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           T         AT&T Wireless         United States         04-Mar-02	566.US	1839637		AT&T Wireless	United States	02-080-00		Binding Information for I
European Patent         European Patent           2728813.3         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           Cooperation         Cooperation         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02	NO 888	2808405 5	•	AT&T Wireless	China P.R.	17-Oct-03		Media Flows
2728813.3         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           Cooperation         Cooperation         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02	10000				European Patent	. (		Binding Information for IP
mailed         AT&T Wireless         Japan         17-Oct-03           Patent         Cooperation         Cooperation           PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02	568.EPC	2728813.3		AT&T Wireless	Convention	16-Apr-02		Rinding Information for
Patent Cooperation PCT/US02/12181 AT&T Wireless Treaty 16-Apr-02 AT&T Wireless United States 04-Mar-02	SAR ID	mailed		AT&T Wireless	Japan	17-Oct-03		Media Flows
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PCI/US02/12181 10/091047 AT&T Wireless United States 04-Mar-02	. (			ATRT Wireless	Cooperation	16-Apr-02	. !	Binding Information for Media Flows
10/091047 AT&T Wireless United States 04-Mar-02	568.PCI	PCI/USUZIZIBI		CCOLONIA IDIC				Binding Information for
	568.US	10/091047		AT&T Wireless	United States	04-Mar-02		Media Flows

Docket         Application         Patent         Country         Application         Country         Application         Country         Application         Country         Application         Country         Country         Application         Country         Country         Application         Country         Application         Country         Country         Application         Country         Country         Application         Country         Country         Country         Application         Country         Country         Application         Country         Co							- to 20	
111279.4   Number	Docket	Application	Patent		Country	Application Date	Date	Title
111279.4   AT&T Wireless   European Patent   16-May-01   In the Convention   In the Conventi	Number	Number	Number	Owner				Method and Systems for
1111279.4   AT&T Wireless   Convention   16-May-01   Discrete								Searching and Managing
1111279.4   AT&T Wireless   Convention   16-May-01   D   D   D   D   D   D   D   D   D			•		European Patent	16 May-01		Data Devices
Sample   States   Japan   19-May-01   DD   DD   Sample   States   14-May-01   DD   DD   Sample   States   Sample   Sam	573.EPC	1111279.4		AT&T Wireless	Convenient	in Country		Method and Systems for
2001-145264   AT&T Wireless   Japan   16-May-01   Din to States   14-May-01   Din to States   Din to Sta				•				Searching and Managing
2001-146264   AT&T Wireless   Japan   16-May-01   D								Information on Wireless
2773532.3 AT&T Wireless United States 14-May-01 B		•		A T 9 T Mirelese	- lanan	16-May-01		Data Devices
456433 AT&TWireless United States 14-May-01 D D D D D D D D D D D D D D D D D D D	573.JP	2001-146264		Alai Wildiess				Method and Systems for
14-May-01   Discrete   14-May-01   Discrete   Discret						-		Searching and Managing
AT&T Wireless   United States   14-May-01   Description   14-May-01				-				Information on Wireless
456433				AT&T Wirelace	United States	14-May-01		Data Devices
2773532.3   AT&T Wireless   Convention   30-Apr-04   V   V   V   V   V   V   V   V   V	573.US	456433		Algi Wildias	2000			Recognition of an
2773532.3   AT&T Wireless   Convention   30-Apr-04   No.					•			Automatic Connection
Patent   2773532.3   Patent   Convention   30-Apr-04   Table   Patent   Cooperation   19-Sep-02   Table   Patent   Cooperation   19-Sep-02   Table   Patent   Paten								Using Spoker Address
2773532.3   AT&T Wireless   Convention   30-Apr-04   Fig.	-				1			Voice Mails and Real Time
2773532.3   AT&T Wireless   Convention   United States   Cooperation   19-Sep-02   Freaty   Volument   Volum				;	European Patent	30. Apr. 04		Telephone Conversations
Patent Cooperation 19-Sep-02 Treaty T	702 273	27735323		AT&T Wireless	Convention	10-100-00		Becognition of an
Petent Cooperation 19-Sep-02 Ireaty 19-S	3/0.670	0.300.17						Automatic Connection
PCT/US02/30124   AT&T Wireless   Treaty   Trea					•			Information Received in
PCT/US02/30124 AT&I Wireless Treaty Cooperation 19-Sep-02 Fr					Pateri			Voice Mails and Real Time
PCT/US02/30124 AT&I Wireless I ready 15-0-0-0-1					Cooperation	10.Son.02		Telephone Conversations
09/972572 AT&T Wireless United States 03-Oct-01  malled Mat&T Wireless Canada 24-Jun-02  AT&T Wireless Cooperation Cooperation 24-Jun-02  The Pott Mat Wireless Treaty 24-Jun-02	576.PCT	PCT/US02/30124		AT&T WIreless	lieary			System and Method for
O9/972572   AT&T Wireless   United States   03-Oct-01								Recognition of and
Deliver   Deli					•			Automatic Connection
Mailed   M								Using Spoken Address
Detect   D								Information Received in
Detailed								Voice Mails
Mailed   M								and Live Telephone
09/972572         AT&T Wireless         Canada         24-Jun-02           malled         Patent         Cooperation         24-Jun-02           Train         Potruls02/20105         AT&T Wireless         Treaty         24-Jun-02				AT&T Wireless	United States	03-Oct-01		Conversations
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02	576.US	09/972572						Method and Apparatus for
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02				•				Mining rower and
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02								Wireless Protocol
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02							-	Capadility to a wireless
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Patent         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02				-				Device, odd; as a second
Patent Cooperation AT&T Wireless Treaty 24-Jun-02		7 1 2 1		AT&T Wireless	Canada	24-Jun-02		Mothod and Apparatus for
Patent Cooperation AT&T Wireless Treaty 24-Jun-02	577.CA	mailed						Memory of the Committee
Patent Cooperation AT&T Wireless Treaty 24-Jun-02				-				Providing Fower and
Cooperation Cooperation 24-Jun-02 AT&T Wireless Treaty						٠.		Wireless Protection
PCT/US02/20105 AT&T Wireless Treaty 24-Jun-02			·		Patent	٠.		Capability to a Wireless
PCT/US02/20105 AT&T Wireless Treaty 24-Jun-02		•			Cooperation			Phone
	E27 DCT4	PCTA IS02/20105		AT&T Wireless	Treaty	24-Jun-02		

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Title	Wireless Adapter for Use	Free Car Kits in Support of Multi-Model Mobile Phones		Bluetooth External Module	olo	Method and Apparatus for	Providing Power and	Protocol	Capability to a Wireless	Device, Such as a Wireless		Method and Apparatus for	Providing Power and	Protocol	Capability to a Wireless	Device, Such as a Wireless		Wireless Adapter for Use	With Proprietary Hands-	Free Car Kits in Support of	Multi-Model Mobile Phones	Bluetooth External Module	adio	System and Method for	Providing an Automatic	Response to a Telephone		Method and Apparatus for	Preventing Wireless Fraud	Secure Validation/Registration of	Validation Cellular Phones	A Cellular/PCS Handset	NAM Download Capability	Using a Wide-Area Paging		A Cellular/PCS Handset	NAM Download Capability	Using a Wide-Area Faging		
•	Wireless A	Free Car K Multi-Mode		Bluetooth	for Car Radio	Method ar	Providing	Wireless Protocol	Capability	Device, S	Phone	Method a	Providing	Wireless Protocol	Capability	Device, S	Phone	Wireless	With Prop	Free Car	Multi-Moc	Bluetooth	for Car Radio	System	Providing	Respons	Call	Method	Prevent	Validatio	Apploa	A Cellul	NAM	Using a	System	A Cellut	NAM	Osinga	System	
Grant Date											21-Oct-03																		30-Jul-96	· ·	40 1401 08	19-IVIdy-90		•	10-Oct-01	·			18-Feb-00	
Application Date		24. hm-02	30-100-17		24-lun-02						31-Dec-01						29-Jul-03				31-Dec-01		31-Dec-01				06-May-02		12-May-95			23-May-90			15-Jun-94				16-Jun-94	•
Country	Name	ration	Detent	Connection	Treat	Heary	-				United States						United States				Tuited States		United States				United States		United States	-	-	United States			China P.R.				Japan	
	Owner	· ·	AT&T Wireless			Al&i Wireless					AT&T Wireless	Alai Wildias	•				AT 8.T Mirelase	AIGH WIIGHS			ATET Wirelace	AIGH WHICHGO	ATOT Misologo	AIGH WHENSO			AT&T Wireless		AT&T Wireless			AT&T Wireless		÷	ATRT Windocs	אומוסים			AT&T Wireless	
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Docket	Number		577.PCT2			577.PCT3						577.US1			•		•	577.US1.C1				577.US2		577.US3			!	585.US	70 31 302	280.03.01		586.US.C2				587.CN			587 ID	25.100

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Docket	Application	Patent		Country	Application :	Grant Date	Title
Number	Number	Number	Owner	Nalle			A Cellular/PCS Handset
		•				;	Using a Wide-Area Paging
			AT&T Wireless	South Korea	26-May-94	24-Aug-02	System Cellular/PCS Handset
587.KR	10-1994-0011468	363502	5				NAM Download Capability
							Using a Wide-Area Paging
_			ATRT Wireless	United States	20-Aug-96	24-Feb-98	System Traffic Information
587.US.C2	08/700135	5722084	Aldi Wilding				Estimation and Reporting
			220,000 1014	Canada	14-Aug-96	27-Jul-99	System
588.CA	2183284	2183284	Algi Wildigs				Estimation and Reporting
				No company	28-Aug-96	20-Dec-00	System
588.DE	763807	DE69611274D	AT&T Wireless	Germany			Traffic Information
				European Patent	28-A110-96	20-Dec-00	System
SAR FPC	96113768.4	763807	AT&T Wireless	Convention	200		Traffic Information
2000					90	20-Dec-00	System
	06113768 4	763807	AT&T Wireless	France	28-Aug-90	200	Traffic Information
388.FK	200101108						Estimation and Reporting
	,	-	AT&T Wireless	Great Britain	28-Aug-96	20-Dec-00	System Traffic Information
588.GB	96113768.4	163801					Estimation and Reporting
					13-Sep-96		System
588.JP	242430/1996		AT&T Wireless	Japan			Traffic Information
					30	24.00+00	System
SBB MX	963902	199227	AT&T Wireless	Mexico	02-260-20	200	Traffic Information
Civi-						24 Mar 08	Estimation and Reporting
2110	768685	5732383	AT&T Wireless	United States	14-Sep-93		Pager-Controlled Wireless
300.00			0001001141 1-01-4	Australia	09-Jan-97	05-Oct-00	Radiotelephone
589.AU	10091/97	721050	Alga Wireless		90		Radiotelephone
	2402500	:	AT&T Wireless	Canada	10-080-20		Pager-Controlled Wireless
589.CA	0002612			European Patent	10-Jan-97		Radiotelephone
589.EPC	97100336.3		AT&T Wireless	TO THE PARTY OF TH			Pager-Controlled Wireless
			AT&T Wireless	Japan	10-Jan-97		Pager-Controlled Wireless
589.JP	2480/1997			1 Inited States	11-Jan-96	07-Apr-98	Radiotelephone
589.US	08/584417	5737707	AT&T Wireless	Ollifer States			•

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Docket	Application	Patent	, and a	Country	Application Date	Grant	Title
Number	NUMBORI	Mulipe		Australia	09. lan-97	19-Oct-00	Automated Wireless-Call Completion Using a Paging Network
591.AU	10092/97	721605	Ala Wieless	ollo neno	90 000	05.Dec.00	Automated Wireless-Call Completion Using a Paging Network
591.CA	2192513	2192513	Al & I Wireless	Canada			Automated Wireless-Call
504 FDC	07100337 1		AT&T Wireless	European Patent Convention	10-Jan-97		Network
	24704007		AT&T Wireless	Japan	10-Jan-97		Automated Wireless-Call Completion Using a Paging Network
7E.180	1861 B 147	0777009	AT&T Wireless	United States	11-Jan-96	01-Sep-98	Automated Wireless-Call Completion Using a Paging Network
SU.US	08/384416	3002410	AT&T Wireless	United States	08-Sep-97	07-Sep-99	Method and Apparatus for Spatial Redundancy in Cellular Networks
592.US	5001022	3830 134	Tate	Canada	08-Apr-98	09-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.CA	2234322	2234322	A TOT Mireless	China P R	02-Jun-98		Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.CN	98109554.2	2	A TRIT Mireless	Semany	07-Aor-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.DE	98302715.2	09000030,4	AT&T Wireless	European Patent Convention	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
393.EPC 593.FR	98302715.2	883317	AT&T Wireless	France	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
503 GB	98302715.2	883317	AT&T Wireless	Great Britain	07-Apr-98	31-Jul-02	Transition: Selecting the Optimal Cellular Radio Mix
293. P	10-152363		AT&T Wireless	Japan	02-Jun-98	7 2	Transition: Selecting the Optimal Cellular Radio Mix
593.US	08/868403	5960339	AT&T Wireless	United States	03-Jun-97	28-Sep-99	Transition: Selecting the Optimal Cellular Radio Mix

Country Application Name Date  European Patent Convention  South Korea  South Korea  28-Feb-97  26-Feb-97  26-Feb-97  26-Feb-97  28-Feb-97  28-Feb-97  United States  28-Feb-97  United States  28-May-97  Canada  O8-May-97							1111	
Number	Ap	plication	Patent		Country	Application	Grant Date	Title
26-Feb-97   22-May-97   2204815   AT&T Wireless   United States   26-Feb-97   2204815   AT&T Wireless   Canada   06-May-97   AT&T Wireless   AT&T Wirel	•	Number	Number	Owner	Name			Automatic Cellular
97103159.6   AT&T Wireless   Convention   26-Feb-97   26     97103159.6   AT&T Wireless   Japan   28-Feb-97   26     5960340   AT&T Wireless   United States   22-May-97   1     6002535   AT&T Wireless   United States   29-Jun-01   2204815   AT&T Wireless   United States   29-Jun-01   2204815   AT&T Wireless   Canada   08-May-97   AT&T Wireless   AT&T Wireless   AT&T Wireless   Canada   08-May-97   AT&T Wireless   A	1	,			atent			Telephone Registration for Universal Telephone Number Service
97103159.6 AT&T Wireless Great Britain 26-Feb-97  AT&T Wireless Japan 28-Feb-97  5960340 AT&T Wireless United States 22-May-97  AT&T Wireless United States 29-Jun-01  AT&T Wireless United States 30-Sep-97  AT&T Wireless Canada 08-May-97  AT&T Wireless Canada 08-Way-97  AT&T Wireless 08-W	7	03159 6	793375	AT&T Wireless	1	26-Feb-97	26-NOV-03	Automatic Cellular
### Second  ### ### ### ### ### ### ### ### #### ####							Se Nov. 03	Telephone Registration for Universal Telephone Number Service
AT&T Wireless	- 5	03159.6	97103159.6	AT&T Wireless	Great Britain	26-reb-97	20-101-07	Automatic Cellular
AT&T Wireless   Japan   28-Feb-97								Universal Telephone
AT&T Wireless   South Korea   28-Feb-97	9			AT&T Wireless	Japan	28-Feb-97		Number Service
### South Korea 28-Feb-97    Second	ŭΙ	/661/100						Telephone Registration for
5960340         AT&T Wireless         United States         28-Feb-96         2           6002935         AT&T Wireless         United States         22-May-97         1           6052598         AT&T Wireless         United States         29-Jun-01           2204815         AT&T Wireless         United States         30-Sep-97           AT&T Wireless         Canada         08-May-97           Convention         08-Un-01						20 Eab 07		Number Service
5960340         AT&T Wireless         United States         22-May-97         1           6002935         AT&T Wireless         United States         22-May-97         1           6052598         AT&T Wireless         United States         29-Jun-01           2204815         AT&T Wireless         Canada         08-May-97	⋍	-1997-0006587		AT&T Wireless	South Korea	70-Len-97		Automatic Cellular
5960340         AT&T Wireless         United States         28-Feb-96         22           6002935         AT&T Wireless         United States         22-May-97         1           6002936         AT&T Wireless         United States         29-Jun-01           1         6052598         AT&T Wireless         Canada         08-May-97           2204815         AT&T Wireless         Canada         08-May-97           Convention         06-UII-01	}							Universal Telephone
5960340			•	ATRT Wireless	United States	28-Feb-96	28-Sep-99	Number Service
6002935 AT&T Wireless United States 29-Jun-01 AT&T Wireless United States 29-Jun-01 AT&T Wireless United States 30-Sep-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 Canada O8-May-97	01	8/608232	5960340	Aldi Wildias				Cellular Architecture for
6002935 AT&T Wireless United States 22-May-97 AT&T Wireless United States 29-Jun-01 AT&T Wireless United States 30-Sep-97 AT&T Wireless Canada 08-May-97					٠.	:	9	Improving Communications
6052598 AT&T Wireless United States 29-Jun-01 AT&T Wireless United States 30-Sep-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 Convention 06-Jul-01	C	18/862095	6002935	AT&T Wireless	United States	22-May-97	14-060-33	Wireless Communications
AT&T Wireless United States 29-Jun-01 6052598 AT&T Wireless United States 30-Sep-97 2204815 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 Convention 06-Jul-01	7				•			Cellular Architecture for
6052598 AT&T Wireless United States 30-Sep-97 2204815 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97 AT&T Wireless Canada 08-May-97					Linited Chates	29-lun-01		Resource Allocation
6052598         AT&T Wireless         United States         30-Sep-97           2204815         AT&T Wireless         Canada         08-May-97		9/893869		AT&T Wireless	Ollifed States			Method for Predicting the
6052598         AT&T Wireless         United States         30-Sep-97           2204815         AT&T Wireless         Canada         08-May-97           AT&T Wireless         Canada         08-May-97           AT&T Wireless         Canada         08-May-97           AT&T Wireless         Canada         08-May-97			<u> </u>	<u> </u>				Station In a Mobile
2204815 AT&T Wireless Canada 08-May-97	_	18/941231	6052598	AT&T Wireless	United States	30-Sep-97	3	Method for Self-Calibration
AT&T Wireless Canada AT&T Wireless Canada AT&T Wireless Canada AT&T Wireless Canada Convention					,	08-Mav-97	12-Aug-03	of a wireless Communication System
AT&T Wireless Canada AT&T Wireless Canada AT&T Wireless Canada	ייי	2204815	2204815	AT&T Wireless	Canada			Method for Self-Calibration
AT&T Wireless Canada  AT&T Wireless Canada  European Patent		٠,	• .		Capada	08-May-97		Communication System
AT&T Wireless Canada European Patent	_ · · I	2350939		A1&1 Wireless	Calada		 	Method for Sett-Calibration
European Patent				AT&T Wireless	Canada	08-May-97		Communication System
Convention	L_	2352594			European Patent			System With Adaptive
		1116398.7		AT&T Wireless	Convention			Channel Angelon

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Dockot	Application	Patent		Country	Application	Gram Date	Title
DUCKEL	Number	Number	Owner	Лаше	250		Method for Self-Calibration
машрег	i compa						of a Wireless Communication System
	201857/1997		AT&T Wireless	Japan	24-Oct-97		Method for Self-Calibration
97.35.78	10011100167						of a Wireless
				•	10 171 04		Communication System
2	2001-206584		AT&T Wireless	Japan	10-10-01		Method for Self-Calibration
10.76.78						29.Oct-02	of a Wireless Communication System
397 11S CP1	08/736871	6473623	AT&T Wireless	United States	25-Uct-90	20.000	Method for Self-Calibration
				00000	08.0-1-02	10-Aug-04	Communication System
507 US CP1C1	1133622	6775549	AT&T Wireless	United States	200000		Method for Self-Calibration
2000				States Chatter	30-Dec-98	17-Dec-02	or a wireless Communication System
597.US.D1	09/222894	6496699	AT&T Wireless	Olliteu States			Method and System for
							Telecommunications
				5	12-Mar-98	18-Feb-03	Network
. AC 803	2231928	2231928	AT&T Wireless	Canada			Method and System for
CO:000				·		·	Providing Access to a
					1	<u>.</u>	Network
			AT&T Wireless	China P.R.	02-Jun-98	-	Method and System for
598.CN	98109550.X						Providing Access to a
		·					Telecommunications
				700000	02-Mar-98	19-May-04	Network
598 DE	98301494.5	883315	AT&T Wireless	Germany			Method and System for
							Providing Access to a
				European Patent	_	10 May 04	Network
1	00004004	883315	AT&T Wireless	Convention	02-Mar-98	19-INIGN-61	Method and System for
598.EPC	9050 1484.5			•			Providing Access to a
•				-	-		Telecommunications
			2001011417074	France	02-Mar-98	19-May-04	Network
598.FR	98301494.5	883315	AT&! WIREIESS	2010			Method and System for
						*.	Telecommunications
					02 110.08	19-May-04	Network
598.GB	98301494.5	883315	AT&T Wireless	Great Distail	05-18141-70		Method and System for
							Providing Access to a   Telecommunications
					01.Anr.98		Network
141 000	687/MAS/98		AT&T Wireless	ludia	20-100-10		

Docket         Application         Patient         Owner         Name         Country         Application         Date         Title           Number         Number         Number         Number         Option of System or Providing Access to a Trechmont and System or Providing Access to a Trechmont and System for Providing Access to a Trechmont Access Different Wireless and Attitude Sistems and Access Different Wireless and Attitude Sistems and Access Different Wireless and Access Different Wirel								
10-145267   Number   Number   Number   Name   Late   Card			Datent		Country	Application	Grant	Title
10-145267	Docket	Application	March	Owner	Name	Date	Date	Method and System for
10-145287	Number	Number	Number					Drowlding Access to a
10-14267								Telecommunications
10-145267   AT&T Wireless   Japan   AT&T Wireless   Japan   AT&T Wireless   Mexico   01-Jun-88   Mexico   Teless   Mexico   01-Jun-88   Mexico			•.	-		77 14008		Network
10-145287				AT&T Wireless		OG-KPIM-17		Method and System for
112746.3   112744.9   112746.3	98.JP	10-145267						Providing Access to a
984354   AT&T Wireless   Mexico   01-Jun-96   NM								Telecommunications
994354  AT&T Wireless Mexico Canada  O003715-0  AT&T Wireless Drazil  AT&T Wireless Drazil  AT&T Wireless Canada  17-Aug-00  S  AT&T Wireless Convention  PC 112746.3  AT&T Wireless Japan 25-Aug-00  S  AT&T Wireless Japan 25-Aug-90  Z2-Aug-00  Z3-Aug-99  Z2-Aug-99	•					04-110-98		Network
Deadle   D		7001364		AT&T Wireless	Mexico	OCLIDO-10		Method and System for
Tage	598.MX	964334						Providing Access to a
Octobe   O								Telecommunications
Octobedator   AT&T Wireless   United States						70 1:10		Network
0003715-0	•			AT&T Wireless	United States	03-70U-97		International Roaming
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2316088 AT&T Wireless Brazil 21-Aug-00 S S AT&T Wireless Canada 17-Aug-00 S S C Aug-00 S S AT&T Wireless Convention AT&T Wireless Japan 25-Aug-90 S S AUG-00 S S S AUg-00 S S S AUg-00 S S S AUg-00 S AT&T Wireless Japan 25-Aug-99 Z2-Jun-04 S AT&T Wireless United States Z7-Aug-99 Z2-Jun-04		<del>-</del>						Cellular/Wireless
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C   112746.3   AT&T Wireless   Brazil   21-Aug-00   S   S								Access Different Wirele
2316088   AT&T Wireless   Brazil   21-Aug-00   S   S								Telephone Network
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2315086 AT&T Wireless Canada 17-Aug-00 S Canada 17-								CellularWireless
2315088 AT&T Wireless Canada 17-Aug-00 E European Patent 16-Jun-00 E Convention 16-Jun-00 E Convention AT&T Wireless Convention 15-Jun-00 E Convention AT&T Wireless Japan 25-Aug-00 E CONGRASS								Telephone Instrument
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Manipe							Telephone Network	
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							International Roaming	
							CellularWirefess	
-							Telephone Instrument to	
, .							Access Different Wireless	
							Telephone Network	
				Linited States	17-Jun-04		Systems	
600.US.C1	mailed		AT&I Wireless	Dillion Dolling			Method and Apparatus for	
			·				Navigation Using a Portable Communication	
				Cotol Challet	22.Dec-99	13-Nov-01	Device	
602115	09/469266	6317684	AT&T Wireless	United States	25-267-27		Method and Apparatus for	
002:00						. •	Enhanced 911 Location	
		·				11. hm-02	Using Power Colling III a	
		6404388	AT&T Wireless	United States	21-Jan-00	11-3011-02	Method and Apparatus for	
603.US	09/488477	010100					Enhanced 911 Location	
	·						Using Power Control in a	
				11-it of Chatee	24-Mav-02	08-Jul-03	Wireless System	
603 US C1	10/155380	6590533	AT&T Wireless	United States			Method and Apparatus for	
1000000							Enhanced 911 Location	
		:					Using Power Collins	
		<u>.</u>	-	United States	06-Jun-03		Wireless System	
603.US.C1(1)	10/456052		A I & I WITELESS	Day Day Day		;	Intelligent Roadway	
			00010-1167-0	1 Inited States	15-Nov-02	01-Jun-04	System	
604.US.C1	10/295293	6744383	Al&I Wireless	DOM:			Enhanced Communication	
							Handling Communication	
							Interruption	
<u> </u>	00/00073		AT&T Wireless	United States	0-inc-00			•
605.05	2 1006/60			European Patent	18-Feb-03		Secure Online Purchasing	
606.EPC	3743137.6		AT&T Wireless	Patent				
			:	Cooperation			•	
			Sector 14 Contract	Treaty	18-Feb-03		Secure Online Purchasing	
606.PCT	PCT/US03/04650		Algi Wildigs	I Inited States	22-Feb-02		Secure Online Purchasing	
809.US	10/080988		A1&1 Wireless	Compo Politico	20 1421, 02		Secure Online Purchasing	
606.US.CP1	10/160656		AT&T Wireless	United States	30-Ividy_02		A Call Queue in a Wireless	
	0.057		AT&T Wireless	United States	13-Dec-01		Device	<u> </u>
607.US	10/01/023					•		
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Docker	Nimber	Number	Owner	Name	Sas		Efficient Synchronous and
Number							Asynchronous Database
9	10/200754		AT&T Wireless	United States	31-Jul-02		System and Method for
608.05	10,202,01	·		Patent Cooperation			Scheme for Browser
	DCT#1603/16652		AT&T Wireless	Treaty	23-May-03		System and Method for
609.PC1	1000100101						Providing a Digital Rights Scheme for Browser
			AT&T Wireless	United States	30-May-02		Downloads
609.US	10/160695		AT&T Wireless	United States	25-Sep-02		VIRUAL SUDSCHIDE LASTED
614.US	10/259558		ATOT Mireless	United States	28-May-04		
618.US	1387467		Atot Wichose	1 Inited States	20-Oct-03		PIC Freeze
619.US	10/690468		Algi Wilding		24 May 02		a Wireless Dévice User
274 1 10	10/155917		AT&T Wireless	United States	Z4-WB/V-42		
20.1				Cooperation	70 200		Multi-Standard Prepaid Communication Services
Egg DCT	PCT/US04/07235		AT&T Wireless	Treaty	US-INIGI -CI		Multi-Standard Prepaid
			AT&T Wireless	United States	18-Mar-03		Communication Services
622.US	-445686			Patent			Prepaid   Telecomminications
				Cooperation	12-Nov-03		System
625 PCT	PCT/US03/36316		AT&T Wireless	IIcary			Prepaid   Talegory
				Loited States	14-Nov-02		System
625.US	10/295233		AT&T Wireless	Olligo Carro			System and Method for
628115	10/840810		AT&T Wireless	United States	07-May-04		Text Abbreviation Methods
			ATRT Wireless	United States	28-Oct-02	:	Systems Using Same
630.US	10/282742				20 000	:	Speech to Message Processing
632.US	10/282909		AT&T Wireless	United States	10.Feb.03		Interrogate Response Communication (IRC)
633.US	mailed		AT&T Wireless	United States	23-Oct-02		Interactive Education Tool
634.US.CP1	10/279170		AIĞI WIRBIESS	United States	04-Aug-03		Receiver Test System
635.US	10/634977		Al&i Wireless			·	Cell Planning Methods and
636.US	10/253403		AT&T Wireless	United States	23-Sep-02		Apparatus, and the
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216500		Number	Owner	Naile			Configured Based on Same	
216500							Methods and Apparatus for	
216500					22, 14, 02		Formatting Information for a Communication	
10/324494			AT&T Wireless	United States	70-Inc-77		Conditional Application	
10/324494							Invocation in a Wireless	
10/324494			A TO TIAGOS	United States	19-Dec-02		Device	
			Al&i Wireless	200000000000000000000000000000000000000			Authomated Device	
			<u></u>				Behavior Management	
							Charging and Rating	
				00t010 F-11-11	40.Dec-02		Conditions	
10/324354			AT&T Wireless	United States	19-060-05		Automated Device	
							Behavior Management	
					- -		Based on Preset	
		,	A TO T Misologo	United States	19-Dec-02		Preferences	
10/324159			AIGI WITEIESS	2000			Control of Security or	٠
-						٠.	Ease-of-Use Sensitivity for	
							a Wireless Communication	
			AT2T Mireless	United States	19-Dec-02		Device	
10/324870			Aldi Wilding				Verification system for	
							Facilitating Transactions	
-							via Comunication	
· -				• • • • • • • • • • • • • • • • • • • •			Networks and Associated	
			AT&T-Wireless	United States	20-Dec-02		Method	
10/325408			2000			• • •	General Purpose	
					3, 02, 03		Provisioning Technologies	
10/700301			AT&T Wireless	United States	31-001-03		Self-Activation via Wired	_
				I Inited States	01-Nov-02		Web and Device	
60/423224			AT&I WIREIESS	Office Octob			System and Method for	
							Network Data Quality	_
				1 Inited States	31-Dec-02		Measurement	
1779371			AI&I WIFEIESS	OILLO COURS		-	Networks and Methods	
		-			-		Integrating Digital Mobile	
				1 Inited States	23-Mav-03		Standards	
10/445173			A I & I WITEIESS	Somo Down			Interface for a Multi-	
			AT9T Wirelass	United States	12-Feb-03		Messaging System	<del></del>
10/364421			Algi Wildias				Autopopulation of Address	
		· ·	AT&T Wireless	United States	16-Jan-03		Book Entries	_
653.US 10/34649/			2000				•	•

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		Owne		Name	7,57		Location Determining
				Patent			Network and Associated
Szalativa Indialess	AT&T Wirele	AT&T Wirele	SS		10-Jun-03		System for Providing
PCT/US03/18449						•	Location-Based Services in
						•	as Locating Individuals and
				00 to 10	-00-00-00		Coordinating Meetings
10/324984 AT&T V	AT&T V	AT&T V	AT&T Wireless	United States	20 000		System for Providing
							A Wireless Network, Such
							as Modifying Locating
						•	Privileges Among
							Individuals and Marraging
		<u> </u>					Associated with Such
				11-ited Chatee	20-Dec-02		Privileges
10/325566 AT&T AT&T AT&T AT&T AT&T AT&T AT&T AT	AT&T	AT&T	AT&T Wireless	United States			Apparatus and Systems for
							Services Within a Wireless
					00.000.00		Network
AT&T	AT&T	AT&T	AT&T Wireless	United States	20-Davae		Data Structures and
10/363670		_					Methods for Location-
							Mireless Network
	ATA	AT	AT&T Wireless	<ul> <li>United States</li> </ul>	20-Dec-02		Method for Providing
10/325032		-					Location-Based Services in
							a Wireless Network, Such
							as Varying Levels of
			AT&T Wireless	United States	20-Dec-02	-	Services
10/325322		-		Patent			Profile Driven Response to
				Cooperation	24 Oct 03		Communication Events
PCT# 1503(35439	LA	A	AT&T Wireless	Treaty	20-100-47		Profile Driven Response to
		-		1 Inited States	28-Oct-02		Communication Events
10/281651	AT	A	AT&T Wireless	Onlied States			Simplified Wireless Device
	- V		AT&T Wireless	United States	11-Jul-03		System and Method for
10/617437		4	di viicico				Integrating Local-Area and
				Patent			Wide-Area Wireless
· ·	· ·		AT&T Wireless	Treaty	23-Oct-03		Networks
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		Dotont.		Country	Application	Grant	
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Miliaci					,		Integrating Local-Area and
							Wide-Area Wireless
				Cototo Latini	20.000.02		Networks
	224128		AT&T Wireless	United States	20.000		System and Method for
968.US	-321130			•			Content Delivery Using
-				Fateri	•		Alternate Data Paths in a
				Cooperation			Wireless Network
			AT&T Wireless	Treaty	23-Oct-03		System and Method for
569.PCT	PC1/USU3/3393						Contact Delivery Using
							Autoria Data Dathe in a
					·		Alternate Data Fattis III a
				Inited Ctatos	20-Dec-02		Wireless Network
21.00	40/224613		AT&T Wireless	Onlied States	-2.22.22		System and Method for
003.00	202201			-			Delivering Data Services in
	•			Talen:			Integrated Wireless
				Cooperation			Nobworks
			ATPT Wireless	Treaty	23-Oct-03		Salar Salar for
670.PCT	PCT/US03/33594		Alai Wileicas			· ·	System and Melliod Iol
							Delivering Data Services III
							Integrated Wireless
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	10010001		AT&T Wireless	United States	Z0-Dec-0Z		Improved Delivery of
670.US	10/324007						Notwork Services
			ATRT Wireless	United States	02-Jan-03	 	INGINOIN OCI FICE
679.US	2428042		2000				Improved Delivery of
					102, tan-03		Network Services
01.000	2420473		AT&T Wireless	United States	02-101-00		Improved Delivery of
680.US	2470113						Network Services
			AT&T Wireless	United States	02-Jan-03		
681.US	2578888						Improved Delivery or
			1	1 Inited States	02-Jan-03		Network Services
682115	2574139		AI&I WIREIESS				
202:20							I Improved Delivery of
					·		Matrice Conicos
			AT&T \Alireless	United States	07-Apr-03		John School
685.US	10/410662		200				Improved Delivery or
			a TOT William	United States	07-Apr-03		Network Services
686.US	10/410663		AT&I WIFEIESS	2000			One Button Access to
							Network Services from a
						:	Domote Control Device
			AT&T Wireless	United States	07-Jul-03		Netholo Control
80.08	10/612970		5				Automatic Device
						_	Configuration to Receive
					46 000 03	:	Network Services
004 110	2006188		AT&T Wireless	United States	13-38p-03		Identification of SIM Based
681.03	2000100				27 825 04		Device
604 116 004	10/833412		AT&T Wireless	United States	-0-ldw-17		
10.00.180	21.000.01		:				••••

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Docket	Application	Mirmhor	Owner	Name	Date	Date	Distributed Profile Storage
Number	Number	NUMBER					and Management in a
							Telecommunication
-					46 tun 03		Network
			AT&T Wireless	United States	20-100-01		Application of Dynamic
692.US	102/33/				-		Profiles to the Allocation
	•				<del></del>	٠	and Configuration of
					16 hm 03		Network Resources
9			AT&T Wireless	United States	10-2011-01		Device and Method for
693.US	02001.3						Improved Text Entry on an
				Cotol O Letter	27- lun-03		Alphanumeric Keypad
311909	10/609043		AT&T Wireless	United States	201100-12		Highly Bandwidth-Efficient
99.03					90 40		Communications
40.00	2283859		AT&T Wireless	Canada	06-05-1-47		
				1			Highly Bandwidth-Efficient
				European Patent	24-Feh-98		Communications
	08010043 3		AT&T Wireless	Convention	22 22 1-23		Highly Bandwidth-Efficient
/00.EPC	202100120			2000	24-Feb-98		Communications
700.JP	10-536984		AT&T Wireless	Japan			Highly Bandwidth-Efficient
		200000	AT&T Wireless	United States	18-Dec-97	19-Mar-02	Communications Lighty Randwidth-Efficient
700.US.C1	08/993721	0238323			70		Communications
10010	RA77AA		AT&T Wireless	United States	03-Aug-01		Priority Messaging Method
700.03.01001							for a Discrete Multitone
							Spread Specificial
		-	AT&T Wireless	United States	28-Nov-00	16-Sep-03	Method of Polling Second
700.US.C1D15	197842	1681799	3				Stations for Functional
							Quality and Maintenance
		_					Data in Discrete Multitone
				<u>.</u>		,	Spread Spectrum
				Octobal Charles	08-Nov-00	12-Nov-02	Communications System
310000	108207	6480522	AT&T Wireless	United States			Vertical Adaptive Antenna
700.03.01010	10001						Array for a Discrete
		-					Comminications System
		-	AT&T Wireless	United States	05-Aug-98	28-JUI-03	Vertical Adaptive Antenna
701.US.C1(1)	09/128738	97/0099					Array for a Discrete
-							Multitone Spread Spectrum
				00000 T - 11 - 11 - 11 - 11 - 11 - 11 -	10-Dec-01	24-Jun-03	Communications System
704 US C1(4)	10/017903	6584144	AT&T Wireless	United States	222		Vertical Adaptive Antenna
					00 1101	24-Ain-04	Multitone Spread Spectrum
701.US.C1(5)	10/435304	6782039	AT&T Wireless	United States	UO-Way-03	8	
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	Communicat	Vertical Ada	Array for a Discrete	Multitone Sp	Communica	Method for Frequency	Division Duplex	Communications	Method for Frequency	Division Duplex	Communications	Method for Frequency	Division Duplex	Communications	Method for Frequency	Comminications	Mothod for	Division Duplex	Communications	Method for	Division Duplex	Communications	Method for	Division Duplex	Communications	Remote W	Having Reduced	Remote M	Having Re	Operating Mode	Out of Ch	Redundar	for a Disc	Spread Spectrum	Communi	Out of Ch	Redunda	Spread Spectrum	Commun	
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Application Date					20-111-04			03-Feb-98			03-Feb-98			03-Feb-98			03-rep-98		OA.Feb.97	5 25 126		19-Apr-99			07-Mar-03	. •	,	06-rep-9/	·.	30-Dec-98	2000			•	24-Feb-98				24-Feb-98	
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Š	Owner					AT&T Wireless			AT&1 Wireless			AT&I Wireless		ATRT Wireless			AT&T Wireless	•		AT&T Wireless		A TOT Missions	AIGI WIIGIGSS		ATRT Wireless	5		AT&T Wireless			AT&T Wireless				ATOT Missions	AIQI WIIGIGSS				AT&T Wireless
Patent	Number					7		•	2278852		•						209442			5933421			6260209					6085114			6047200					2281818				
Application	Number					mailed			2278852			98908475.1			10-534899		007160	227.100		08/796584			09/294174			10/3839/6		08/796586			09/222895					2281818				98911401.2
Docket	Number	-			•	701.US.C1(6)			702.CA 2	-		702.EPC 5			702.JP			/UZ.MA		702.US			702.US.C1			702.US.C1(1)		703.115			703.US.D1					704.CA				704.EPC

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2.51	Datont		Country	Application	Grant	
Application	ratem	Owner	Name	Date	Date	Title
Number	Number	Owigi				Out of Channel Cyclic
						for a Discrete Multitone
	: -			•		Spread Spectrum
			Mondo	24.Feb.98	17-Jul-02	Communications System
997730	209008	AT&T Wireless	Mexico	2000		Non-Uniformly Spaced
						Tones for Synchronization
	301000	AT&T Wireless	United States	24-Feb-97	20-Apr-99	Waveform
08/803833	5896425	2000				Transmit/Receive
	6064543	AT&T Wireless	United States	24-Feb-97	26-Jan-99	Compensation
08/806508	2004243	2000				Transmit/Receive
071100700	617555	AT&T Wireless	United States	11-Jun-98	16-Jan-01	Compensation
09/095/48	0173333					Method for Linearization of
	-	•				RF Transmission
				-		Electronics Using
						Baseband Pre-Distortion in
						T/R Compensation Filot
	7700101	ATRT Wireless	United States	24-Feb-97	16-Feb-99	Signals
08/804615	20/2014	5				Method for Gaining Access
						to a snared integral winds
					9	Alaha Schome
7020000	6002664	AT&T Wireless	United States	24-Feb-97	14-Dec-93	Transmit/Receive
/ncono/on	2000					Compensation for a Dual
			1 Inited States	24-Feb-97	30-Mar-99	FDD/TDD Architecture
08/804614	5889814	AT&T Wireless	Ollifeu Otares			
			Linited States	24-Feb-97	01-Jun-99	Transmit/Receive Switch
08/803832	5909641	AIGI WIRESS	Danie Common			Adaptive Weight Update
						Method and System for a
						Spectrum Communications
	·			24 524 07	13.11.99	System
09/90/616	5923700	AT&T Wireless	United States	74-ren-97	2000	Adaptive Weight Update
00/00-010						Method and System for a
						Discrete Multitone Spread
	_		-			Spectrum Communications
-			I Inited States	15-Nov-01	-	System
09/999048		AT&T Wireless	Ollifed Clares			Adaptive Weight Update
					•	Method for a Discrete Multitone Spread Spectrum
02/209079	6160839	AT&T Wireless	United States	26-Apr-99	12-Dec-00	Communications System
0.0000		Ī				
	Application Number 08/803833 08/806508 09/095748 08/804615 08/804614 08/804616 08/804616	11cation mber 233 233 2507 2615 2615 2616 2616 2616 2616 2616 2616	lication         Patent Number           mber         Number           Number         All           209008         All           333         5896425         All           508         5864543         All           615         5872814         All           615         5872814         All           607         6002664         All           832         5809641         All           8616         5923700         All           9048         6160839         All	lication         Patent Number         Owner           Imber         Number         Owner           S83         5896425         AT&T Wireless         U           589         AT&T Wireless         U           589         AT&T Wireless         U           615         5872814         AT&T Wireless         U           616         5872814         AT&T Wireless         U           616         589814         AT&T Wireless         U           616         5923700         AT&T Wireless         U           616         5923700         AT&T Wireless         U           618         6160839         AT&T Wireless         U	lication         Patent         Owner         Country         App           Imber         Number         Owner         Name         A4Fe           Imber         Number         A7£T Wireless         Mexico         24-Fe           Image         58964543         A7£T Wireless         United States         24-Fe           Image         5872814         A7£T Wireless         United States         24-Fe           Image         5872814         A7£T Wireless         United States         24-Fe           Image         5898914         A7£T Wireless         United States         24-Fe           Image         590841         A7£T Wireless         United States </td <td>lication         Patent Number         Owner Name         Country Name         Application Date           mber         Number         Owner         Name         Date           sas         209008         AT&amp;TWireless         United States         24-Fab-87         22           506         5864543         AT&amp;TWireless         United States         24-Fab-97         22           748         6175555         AT&amp;TWireless         United States         24-Fab-97         14           615         5872814         AT&amp;TWireless         United States         24-Fab-97         14           615         5802814         AT&amp;TWireless         United States         24-Fab-97         14           616         5823700         AT&amp;TWireless         United States         24-Fab-97         14           616         5823700         AT&amp;TWireless         United States         24-Fab-97         1           616         5823700         AT&amp;TWireless         United States         24-Fab-97         1           6009         416T Wireless         United States         24-Fab-97         1</td>	lication         Patent Number         Owner Name         Country Name         Application Date           mber         Number         Owner         Name         Date           sas         209008         AT&TWireless         United States         24-Fab-87         22           506         5864543         AT&TWireless         United States         24-Fab-97         22           748         6175555         AT&TWireless         United States         24-Fab-97         14           615         5872814         AT&TWireless         United States         24-Fab-97         14           615         5802814         AT&TWireless         United States         24-Fab-97         14           616         5823700         AT&TWireless         United States         24-Fab-97         14           616         5823700         AT&TWireless         United States         24-Fab-97         1           616         5823700         AT&TWireless         United States         24-Fab-97         1           6009         416T Wireless         United States         24-Fab-97         1

				Country	Annlication	Grant		
Docket	Application	Patent	3	Name	Date	Date	Title	
Number	Number	Number	Owner	2			Adaptive Weight Update	
							Discrete Multitone Spread	
							Spectrum Communications	
		•	acclarate to the	Linited States	31-Oct-00	18-Jun-02	System	
13.US.C2C1	09/699361	6408016	Al&I Wireless	200000000000000000000000000000000000000			Inventory Pipeline	
			ATRT Miroloce	United States	01-May-97	16-Mar-99	Management System	
15.US	-646995	5884300	A I & I VII GIGSS	200000000000000000000000000000000000000			FDD Forward Link	
		•					Beamforming Method for a	
	-					•	FDD Communications	
	0200000	2262358	AT&T Wireless	Canada	23-Feb-99	31-Dec-02	System System	
17.CA	9007977	2402330					FUU Forward Cilifx	
							Beamforming Method for a	
				European Patent	9	04-A10-04	System	
747 EDC	99301378.8	940934	AT&T Wireless	Convention	Z2-rep-89	10-R0-10	FDD Forward Link	
2							Beamforming Method for a	
•							FDD Communications	
		•	000000000000000000000000000000000000000	United States	05-Mar-98	17-Oct-00	System	
717.US	09/035286	6134261	A I & I WIREIESS				Near-Optimal Low-	
							Complexity Decoding of	
(4)	-						Space-Time Codes for	
	•	-				•	Fixed Wireless	
,		2000	AT&T Wireless	Canada	10-Dec-98	06-Aug-02	Applications	_
720.CA	2255464	2255464	2000				Near-Optimal Low-	
							Complexity Decoung of	
							Fixed Wireless	· —
							Applications	-
100	60823328 3-08	98124231.6	AT&T Wireless	Germany	1/-060-30		Near-Optimal Low-	Τ_
/ 20.DE	03043040.000						Complexity Decoding of	
							Space-Time Codes for	
				Furnnean Patent			Fixed Wireless	
				Convention	17-Dec-98	21-Apr-04	Applications	_
720.EPC	98124231.6	938194	Al&I WIREIESS	TO T			Near-Optimal Low-	
							Complexity Decoding of	
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•		-	-	European Patent		٠.	Fixed Wireless	_
		:	AT&T Wireless	Convention	17-Dec-98		Applications	Τ
720.EPC.D1	4009318.9		5				Near-Optimal Low-	
							Complexity Decouling of	
							Space-Lime  Codes for	
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720 FR	98124231.6		AT&T Wireless	France	17-Dec-98			١.
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Application Number 98124231.6	Patent		Country	Application	Grant	
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	Nimber	Owner	Name	Date	Date	Title
						Near-Optimal Low-
	-					Complexity Decoding of
						Space-Time Codes for
						Fixed Wireless
		AT9T Wireless	Great Britain	17-Dec-98		Applications
		AIGI WIIGIGSS				Near-Optimal Low-
	•					Complexity Decoding of
						Space-Time Codes for
						Fixed Wireless
		A TOT Mirelann	Mavico	16-Dec-98		Applications
		AIGI WIIGIGSS	CONTON			Near-Optimal Low-
						Complexity Decoding of
					·	Space-Time Codes for
						Fixed Wireless
	•		I Inited Chaton	24. Apr. 08	13-Feb-01	Applications
618	6188736	AT&T Wireless	Office Oraco	00-100-13		Near-Optimal Low-
					-	Complexity Decoding of
-						Space-Time Codes for
						Eived Wireless
			:			Applications
	6470043	AT&T Wireless	United States	17-Oct-00	70-100-77	Applications
24000000						Near-Optimal Low-
						Complexity Decoding of
-		-				Space-Time Codes for
				•		Fixed Wireless
7077007	6744635	AT&T Wireless	United States	03-Sep-02	25-May-04	Applications
	1000	2000				Near-Optimal Low-
						Complexity Decoding of
						Space-Time Codes for
						Fixed Wireless
		A TOT Misologo	United States	/04-Mav-04		Applications
10/838553		AIQI MIGIGOS				Transmitter Diversity
						Technique for Wireless
•		AT&T Wireless	Canada	31-Aug-98		Communications
2303388		2000				Transmitter Diversity
						Technique for Wireless
		ATOT Wirelace	Canada	31-Aug-98		Communications
2405875		AIGI WIIGIGSS	2000			Transmitter Diversity
						Technique for Wireless
		AT&T Wireless	Chile	27-May-03		Communications
1060-2003		2000				Sender for Wireless
		2001-1111-111-1	Compon	31-Aug-98	13-Jun-02	Communications
29824763.1	29824763.1	Atori Wildias				Receiver for Wireless
	20024760.7	AT&T Wireless	Germany	31-Aug-98	13-Jun-02	Communications
29824760./	3024700.1	2000				

less         Germany         31-Aug-98         13-Jun-02         Communications           less         Germany         31-Aug-98         25-Jun-03         Communications           less         Convention         31-Aug-98         25-Jun-03         Transmitter Diversity           less         Convention         31-Aug-98         25-Jun-03         Transmitter Diversity           less         Convention         31-Aug-98         25-Jun-03         Communications           less         Convention         31-Aug-98         25-Jun-03         Communications           less         Great Britain         31-Aug-98         25-Jun-03         Communications           <	Application Patent Owner		OWI	Jer	Country Name	Application Date	Grant Date	Title System for Wireless
Germany   31-Aug-98   13-Jun-02   Construction   31-Aug-98   13-Jun-02   Construction   31-Aug-98   25-Jun-03   Convention   31-Aug-98   Convention   31-Aug-98   Convention   Convention   31-Aug-98   Convention   C			Jouling Total	9	Germany	31-Aug-98	13-Jun-02	Communications
Germany   31-Aug-98   13-Jun-02   Contemporal	29824761.5 29824761.5 A1&1 WIERESS		Algi Wieles	2				Electronic Circuit for a Receiver for Wireless
Germany   31-Aug-98   13-Jun-02   Co	29824765.8 AT&T Wireless		AT&T Wirele	SS	Germany	31-Aug-98	13-Jun-02	Communications Electronic Circuit for a
Germany   31-Aug-98   25-Jun-03   Convention   24-Feb-04   Convention   31-Aug-98   Convention   24-Feb-04   Convention   24-Feb-01   Convention   24-Feb-04						31.Aug-98	13-Jun-02	Sender for Wireless Communications
Germany         31-Aug-98         25-Jun-03         Convention           European Patent Convention         31-Aug-98         25-Jun-03         Convention           France Convention         31-Aug-98         25-Jun-03         Convention           S         Great Britain         31-Aug-98         25-Jun-03         Convention           S         Great Britain         31-Aug-98         25-Jun-03         Convention           S         Hong Kong         24-Feb-04         Ton-Dec-03         Convention           S         Hong Kong         24-Feb-04         Convention         Convention           S         United States         07-May-98         06-Feb-01         Convention           S         United States         05-Dec-00         10-Aug-04         Convention           S         United States         22-Jun-03         Convention         Convention           S         United States         02-Dec-00         10-Aug-04         Convention           S         United States         02-Dec-98         22-Apr-03	29824762.3 AT&T Wireless		AT&T Wire	ess	Germany			Transmitter Diversity
European Patent 31-Aug-98 25-Jun-03 Tr Convention 31-Aug-98 25-Jun-03 C Convention 31-Aug-98 25-Jun-03 C Convention 31-Aug-98 25-Jun-03 C S Georgia 10-Jul-03 10-Dec-03 C S Hong Kong 24-Feb-04 10-Dec-03 C S Mexico 31-Aug-98 06-Feb-01 C S United States 07-May-98 06-Feb-01 C S United States 22-Jun-04 22-Apr-03 S S United States 22-Jun-04 22-Apr-03			ATRT Min	oloce	Germany	31-Aug-98	25-Jun-03	Communications
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European Patent         31-Aug-98         To Convention         To Convent	98944605.9 AT&T Wireless		AT&T Wir	eless	Convention	31-Aug-98	50-JUN-03	Transmitter Diversity
France   31-Aug-98   25-Jun-03   Company			1	9	European Patent	31-Aug-98		Technique for Wireless Communications
France         31-Aug-98         25-Jun-03         C           Great Britain         31-Aug-98         25-Jun-03         C           Georgia         10-Jul-03         10-Dec-03         C           F         Hong Kong         24-Feb-04         C           S         United States         07-May-98         06-Feb-01           S         United States         05-Dec-00         10-Aug-04           S         United States         22-Jun-04         C           S         United States         22-Jun-04         C           S         United States         22-Apr-03	3010810.4	A I & I WIE	AI&I WIL	GIGSS				Transmitter Diversity Tachnique for Wireless
Great Britain   31-Aug-98   25-Jun-03   C			-		France	31-Aug-98	25-Jun-03	Communications
Great Britain         31-Aug-98         25-Jun-03         C           Georgia         10-Jul-03         10-Dec-03         C           R         Hong Kong         24-Feb-04         C           S         United States         07-May-98         06-Feb-01           S         United States         05-Dec-00         10-Aug-04           S         United States         22-Jun-04         22-Apr-03           Is         United States         02-Dec-98         22-Apr-03	98944605.9 1016228 AT&I WIRELESS		AT&! WIR	Siess	2010			Transmitter Diversity Technique for Wireless
Georgia   10-Jul-03   10-Dec-03   Company			-		Crost Britain	31-Aug-98	25-Jun-03	Communications
Georgia         10-Jul-03         10-Dec-03         O           Hong Kong         24-Feb-04         T           Mexico         31-Aug-98         O           United States         07-May-98         O6-Feb-01           United States         05-Dec-00         10-Aug-04           S         United States         22-Jun-04           S         United States         22-Jun-04	98944605.9 1016228 A1&1 WI		AT&I WI	Bless	Older Charles			Transmitter Diversity Technique for Wireless
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Mexico         31-Aug-98           United States         07-May-98         06-Feb-01           United States         05-Dec-00         10-Aug-04           United States         22-Jun-04         22-Apr-03		<del>-</del>	<del>-</del>	000	Hong Kong	24-Feb-04		Communications
Mexico         31-Aug-98           United States         07-May-98         06-Feb-01           United States         05-Dec-00         10-Aug-04           United States         22-Jun-04           United States         02-Dec-98         22-Apr-03	4101312.5 A18.1 W	AIRIW	AIR	reless	2			Transmitter Diversity Technique for Wireless
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	2022958 6553237 AT&T		AT&T	AT&T Wireless	United States	02-Dec-98	22-Apr-03	Remote Unit Passivation

Application	Patent		Country	Application	Grant		
Mimbor	Nimber	Owner	Name	Date	Date	2011	
Number	Manage					Method for Synchronous	
			Cototo Letter	02.Dec.98		Communication Medium	E
2023689		AT&T Wireless	United States	26-290		Method for Estimating	
•	٠.					Changes in Product Life for	e for
00/457672		AT&T Wireless	United States	25-Apr-00		a Kedesigned Froduct	8
710100						Low Complexity Maximit	
						Concatenated Space	
	•					Codes for Wireless	
	1000100	AT&T Wireless	Canada	16-Oct-98	18-Feb-03	Applications	
2276207	777,0707	SCORE IN LINE				Low Complexity Maximum	E .
		-				Likelihood Detection of	<u> </u>
						Concatenated Space	
						Codes for Wireless	-
		ATOTIAlizabase	Canada	16-Oct-98		Applications	
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			-			Likelihood Detection of	o o
						Concatenated Space	
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		A TOT MILLIAN	Convention	16-Oct-98		Applications	
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	·		•			Cocatenated Space	 5 .
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						Likelihood Detection of	ō
						Concatenated Space	
						Codes for Wireless	_
		A TO T Missions	neuel.	14-Aug-03		Applications	
2003-298814		Alai wiiciess	index.			Low Complexity Maximum	mnii.
						Likelihood Detection of	
٠						Concatenated Space	
						Codes for Wireless	
		ATRT Wireless	Mexico	16-Oct-98	19-Sep-03	Applications	
98096	216400	Colonia Maria				Low Complexity Maximum	
					•	Likelihood Detection of	ō
					-	Concatenated Space	
	-					Codes for Wireless	
		AT&T Wireless	Mexico	21-Apr-03		Applications	1
PA/a/2003/003469		2000			. • .	Low Complexity Maximum	
		•			34 500 00	Concatenated Space	5 6
09/167422	6501803	AT&T Wireless	United States	08-Cct-80	31-040-05		

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Title	Codes for Wireless Applications	Low Complexity Maximum	Likelihood Detection of	Codes for Wireless	Applications	Low Complexity Maximum	Likelihood Detection of	Concatenated Space	Codes for Wireless	Applications	Method for Combining	Communication Beams in	System	Method for Combining	Commission Beams in	a Wireless Communication	System	Method for Location-	Based Asset Management	Method for Location-	Based Asset Management	Wethoo and Apparatus for Vibration and Temperature	Isolation	Maximum Ratio	Transmission	Maximum Ratio	Mothod for Error	Compensation in an OFDM	System With Diversity	Method for Error	Compensation in an OFUM	System With Diversity	Compensation in an OFDM	System With Diversity		Columnation for Indiana	Efficiency in a Time	
Grant Date			. •	-									23. Apr. 02	20-1dA-62									10-Dec-02		01-Oct-02				27-Aug-02									
Application Date						02-060-01				30-Dec-02			00	30-Apr-99			00 mg 02	10-3411-02	04-Jun-99		14-Sep-04		13-Mav-99		17-Sep-98		19-Jun-02		27-May-99			24-Jun-02		21-May-04	24 Mar 00	24-Iviai -00	23-May-00	
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Patent	Number							-						6377783							٠			6491528	6450740	Otherto			00000	2777460	-							
Application	Number					1167225					1739925			09/303266	2070000	•		10/046243		-544696	mailed	2000		09/311820	9900	09/130/190	10/177461			09/321457		10/176643			-642186	09/535365	402506	onczal
Docket	Number					731.US.D1 1					731.US.D1C1			311622				732.US.C1		733.US	733115 C4			734.US	<u>.</u>	735.05	735115 C1	2000		736.US		736118 04	10.000		736.US.C1(1)	737.US	120	78.AK

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Number	Number	Number	Owner	Name	Cago		Sharing Network	
							Mothod for Improving	<u> </u>
•							Efficiency in a Time	
					00.1011		Sharing Network	-
			AT&T Wireless	Brazil	18-May-00		Method for Improving	<del>.</del>
738.BR	75120						Efficiency In a Time	
				Concor	18-May-00	09-Dec-03	Sharing Network	$ \top $
130 CA	2308963	2308963	AT&T Wireless	Callada			Method for Improving	
0.00	200007			European Patent			Efficiency in a Time	
			AT&T Wireless	Convention	16-May-00		Method for Improving	
738.EPC	110197.1					,	Efficiency in a Time	
					ON-WEAT-AC		Sharing Network	
	E044		AT&T Wireless	Mexico	On Applicant		Method for Improving	
/38.MA	100						Efficiency in a Time	
			ATOTIMireles	United States	11-Apr-00		Automatic Cain Control	٦
738.US	09/546794		AIGI WIIGIGSS				Mothode and Apparatus	- S
							Suitable for Use in OFDM	NO.
					00-110-00	26-Mar-02	Receivers	
•	207070	6363127	AT&T Wireless	United States	20-100-00		Automatic Gain Control	<u>.</u>
744.US	504047-						Methods and Apparatus Suitable for Use in OFDM	2 E 2 E
					17 Jan 02	03-Jun-03	Receivers	
•	10001	6574292	AT&T Wireless	United States	11-0011-05		Automatic Gain Control	<u> </u>
744.US.C1	#1 /1C0/0L						Methods and Apparatus	itus FOR
							Suitable for Use in OFUM	ب ق
			•	Linited States	14-Apr-03		Receivers	100
744 115 (21/1)	10/414576		AT&T Wireless	Oliffed Ordina			Methods and Apparatus for	idis id
144.03.01/1					-		Use in Reducing Resides	
				European Patent			Communication Signals	slet
			AT&T Wireless	Convention	25-Mar-03		Methods and Apparatus for	atus for
745.EPC	1964443.4			100			Use in Reducing Residual	sidual
				Constitution			Phase Error in OFD	Σ.
•			-	Cooperation	24.410-01		Communication Signals	nals
	DOT! 1004 10EB34		AT&T Wireless	Ireary	2 Anua 7		Methods and Apparatus for	atus for
745.PCI	FC1/0301120021						Use in Reducing Residual	Signal
				:			Phase End in Ordin	ale c
			ATOT Mirelese	United States	25-Sep-00		Communication organism	
745.US	09/670286		Algi Wildios		-		Detection of Cross-	9
			PadlesiA/TOTA	Argentina	05-Feb-01		Connection Between a	
747.AR	10100520		Alai Wicios	8				
		•						

Docket Number	Application	Patent		Country	Application	Gram	
mper				Mamo	Date	Date	Title
	Number	Number	Owner	Name			Wireless Loop Network
							and Another Loop Network
	•						Detection of Cross-
							Connection Between a
	-						Wireless Loop Network
			,.				and Another Loop Network
				11-ited Ctatos	11-Feb-00		at a Subscriber's Premises
1	09/502655		AT&T Wireless	United States	25.25		Apparatus and Method for
	200700						Synchronization in a
	-				. •		Multiple-Carrier
		-					Communication System by
		٠					Observing a Plurality of
_	. •			A Line of the contract of the	2400		Synchronization Indicators
749 401	103102		AT&T Wireless	Argeninia	20.00		Apparatus and Method for
				-			Synchronization in a
						. •	Multiple-Carrier
							Communication System by
							Observing Energy Within a
				Argenting	21-Jun-00		Guard Band
748.AR2	103106		AT&I WIREIESS	Nagarina Parameter			System and Method for
							Synchronization in a
							Comminication System by
						. •	Observing a Phase-
							Frequency Relationship of
		-		•	00		a Plurality of Pilot Signals
	100105		AT&T Wireless	Argentina	21-300-00		Apparatus and Method for
748.AK3	103103			· . ·			Synchronization in a
						•	Multiple-Carrier
							Communication System by
							Observing a Plurality of
				11-ited Chatee	14-1111-00		Synchronization Indicators
7481151	544822		AT&T Wireless	Office Oraco		     	Apparatus and Method for
							Synchronization in a
	,	استد					Multiple-Carrier
				-			Communication System by
							Observing Energy Within a
				-		· .	Guard
	وبست			Linited States	14-Jun-00	14-May-02	Band
748.US2	630289	6389087	AT&I Wireless	Cillied Cierco			Apparatus and Method for
		,					Synchronization in a
			,		90		Communication System by
531187	666082	, .	AT&T Wireless	United States	14-30n-00		

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		Datont		Country	Application	Grant	
Docket	Application	Fatent	Ownor	Name	Date	Date	litte
Number	Number	Number	OWIE				Observing a Phase-
							Frequency Relationship of
-	-						a Plurality of Pitot Signals
							Methods and Apparatus for
							Use in Obtaining
		-					Frequency Synchronization
							in an OFDM
				. Coiting	21. hm-00		Communication System
749 AR	103104		AT&T Wireless	Argentina	20-1100-17		Methods and Apparatus for
1							Use in Obtaining
•				Datont			Frequency Synchronization
				Palein O			in an OFDM
				Cooperation	76 112 00		Communication System
740 PCT	PCT/US00/40232		AT&T Wireless	Ireary	13-100-CI		Methods and Apparatus for
19:10							11se in Obtaining
							Frequency Synchronization
					-	_	in an OFDM
				1 Inited Chatee	14- hip-00	27-Jul-04	Communication System
749.US	1155142	6768714	AT&T Wireless	Onlied States	20-100-41		Methods and Apparatus for
							Use in Obtaining
							Frequency Synchronization
							in an OFDM
	•			1 Inited States	14-Jun-00	02-Mar-04	Communication System
750.US	1156603	6700866	A I & I WITEIESS	Course Course			Methods and Apparatus for
							Use in Obtaining Frame
				Patent			Synchronization in an
•••	٠		•	Conneration			OFDM Communication
				Troops	16-Mav-01		System
751 PCT	PCT/US01/15891		AT&T WIREIESS	hean			Methods and Apparatus for
							Use in Obtaining Frame
				٠.			Synchronization in an
	-						OFDM Communication
			ATET Wirelace	United States	13-Jun-00		System
751.US	452050		Aldi Wilcies			<u>.                                      </u>	Method and Apparatus for
			-				Use in Reducing Traffic
						:	Over a Communication
٠.						•	LINK USED BY B COMPANY
			AT&T Wireless	Argentina	21-Jun-00		Network
752.AR1	103100		5				Keverse Lunneling
				Patent			Methods and Apparation to
			<u>.</u>	Cooperation			Use With Phyate Computer
			AT&T Wireless	Treaty	14~Jun-00		Networks
752.PCT2	PC1/0500/16432		3				Methods and Apparatus to
7521164 04	10/120710		AT&T Wireless	United States	11-Apr-02		Ose III Vecesia

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Maine			Over a Communication
							Link Used by a Computer Network
							Methods and Apparatus for
						,	Use in Communicating
				•			Voice and High Speed
							Data in a Wireless
				Argontina	21-lin-00		Communication System
754.AR	103103		AT&T Wireless	Algenana			Method and Apparatus for
							Use in Communicating
				Patent			Voice and High Speed
				Cooperation			Data in a Wireless
			AT9T Mirelace	Treaty	15-Jun-00		Communication System
754.PCT	PCT/US00/16700		Alai Wildias				Methods and Apparatus for
		٠.					Voice and High Speed
							Data in a Wireless
•				Octobal Charles	14_110_00		Communication System
254115	1002105		AT&T Wireless	United States	14-201-00		System and Method for
20.00							Data Scrambling to
							Reduce the Crest Factor in
			A TOT INCOME	Arrentina	20-Jun-00		an OFDM Waveform
755.AR	103064		Al&I Wireless	Dimini di Maria			System and Method for
							Data Scrambling to
				European Patent			Reduce the Crest Factor in
			AT&T Wireless	Convention	00-Jun-00		an Orom wavelonn
755.EPC	938236.7		SCORPIN INIC				System and Method for
		-		Patent			Dading the Crest Factor in
	-		<u> </u>	Cooperation			an OFDM Waveform
755 PCT	PCT/US00/15836		AT&T Wireless	Treaty	00-UN-80		System and Method for
		,		·			Data Scrambling to
							Reduce the Crest Factor in
			ATRT Mireless	United States	08-Jun-00	31-Aug-04	an OFDM Waveform
755.US	-627971	85258	Aldi viicios				System and Method Ior
	:		:				Data Scrambling to
							Keduce the Crest ractor in
-	follow		AT&T Wireless	United States	30-Aug-04		Design for Scatable
(33.03)	Dampin					.*	Notwork Management
	-			Cuitacos	15-hn-00		Systems
758.AR	102967		AT&I WIREIESS	Algenma			System and Method for
			:	1	2	06-Feb-03	Checking Service Availability
760.TW	89112312	163403	AT&T Wireless	Iawan	75-Jun-27		

						1100		_
Docket	Application	Patent	Owner	Country	Application Date	Date	Title	—т
Number	Number	Number					System and Method for	
				1 inited States	17-May-00	03-Sep-02	Availability	
760.US	09/572144	6445912	A i & i Wireless	COURSE COURSE			Intelligent Presentation	
			200[00]47 + 0 + 4	United States	24-Feb-00		Systems	Т
761.US	09/511168		A 1 & 1 WITCHESS	COUNTRO CHEMOS			Session Subscription	
							System and Method for	
765.BR	0005942-0		AT&T Wireless	Brazil	20-Dec-00		Session Subscription	Τ
							System and Method for	
765 C.A	2326572		AT&T Wireless	Canada	16-Nov-00		Same Cuberiotion	Т
				European Patent			System and Method for	<del></del>
785 FPC	311492.3		AT&T Wireless	Convention	20-Dec-00		Same Subscription	Т
2000	0.30						System and Method for	
	•		AT&T Wireless	Mexico	20-Dec-00		Same	
765.MX	12896		CODE IN LOID				Session Subscription	
			: :	Claited Chates	30-Dec-99		Same	
765.US	09/474839		AT&I WIREIESS	Ollifed States	20.00		Subscription-Based Billing	[
							Methods and Systems for	
							Shared Network Modern	_
768 AP	106901		AT&T Wireless	Argentina	ZZ-Dec-00		Subscription Based Billing	Ţ,
17.90	10001						Methods and Systems for	
				•			Shared Network Modern	
			AT8T Wireless	Brazil	21-Dec-00		Pools	Ţ
768.BR	0006220-0		AIGI WIEGESS				Subscription-Based Billing	
				European Datent			Shared Network Modern	
			STOT MAINTINGS	Convention	27-Oct-00	ď	Pools	
768.EPC	309465.3		Alai Wireless				Subscription Based Billing	
						-	Methods and Systems for Shared Network Modern	_
				Movino	20-Dec-00		Pools	
768.MX	12898		AT&T Wireless	INIBAICO	200.00		Subscription Based Billing	<u>o</u>
							Methods and Systems for	>
			:	Cototo	OU Con OO	•	Pools	
768.US	09/665780		AT&T Wireless	Onlied States	20-020-02		Synchronization of	
				. sotoly Poterial	10-Dec-01	ŧ	Encryption in a Wireless Communication System	
769.US	10/028573		AT&T Wireless	Onlied States	2000			
				:				

	A A	Datont		Country	Application	Grant	<b>i</b>
Docket	Application	Ministra	Owner	Name	Date	Date	Title
Number	Number	Nomber					Data Link Layer Tunneling
							Data in a Noisy Wireless
				I taited Chates	24-Oct-00	24-Feb-04	Environment
770.US	09/694943	6697983	AT&T Wireless	Ullieu Siares	2000		Data Link Layer Tunneling
							Technique for High Speed
							Data in a Noisy Wireless
			ATOT Wilcologo	United States	28-Jan-04		Environment
770.US.C1	10/767246		Ala Wileicas				Medium Access Dynamic
							Congestion Control
					-		Mechanism for Wireless
	- !	0000	AT&T \A/irelese	1 Inited States	21-Dec-00	20-Jul-04	Data
772.US1	09/745216	6765869	Alga Wildigs	2000			Medium Access Dynamic
							Congestion Control
							Mechanism for Wireless
	07017200	6766970	AT&T Wireless	United States	21-Dec-00	20-Jul-04	Data
772.US2	09//45219	0/000/0					Collision-Free Multiple
							Access Reservation
				European Patent			Scheme for Multi-1 one
() ()			AT&T Wireless	Convention	11-Dec-00		Modulation Links
775.EPC	311028.5		2000				Collision-Free Multiple
							Access Reservation
							Scheme for Multi-1 one
376 110	00/618653		AT&T Wireless	United States	18-Jul-00		Modulation Links
(75.05	03/010033						Method and Apparatus to
							Communication System
				Cototo February	OD WOW BC		Resources
778.US	228522		AT&T Wireless	United States	20-101-02		Method and Apparatus for
							Efficient Sharing of
-		• • •			. '		Communication System
			ATRT Mirelees	United States	19-Aug-04		Resources
778.US.C1	mailed		2000				A Real-Time System for
				. ,	4		Factor
770 AR	10100580		AT&T Wireless	Argentina	08-rep-01		1
10.61				Patent			A Real-Time System for
				Cooperation			Measuring the Ricean K-
700.00	DOT#1004/02054		AT&T Wireless	Treaty	07-Feb-01		Factor
7/8/PCI	PC1/USU1/US034						System and Method for
							Choice Over a High-Speed
	- !		ATPT Wireless	United States	26-Dec-01		Data Connection
781.US	10/036315		2000		42 144 04		Adaptive Dual-Polarization
782.AR	10103358		AT&T Wireless	Argentina	13-301-01		

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Title	Communication of Orthogonal Frequency Division Multiplexed Signal	Multicarrier Transmission Using Polarized Antennae	Adaptive Dial-Polarization Communication of Orthogonal Frequency Division Multiplexed	Signals Transmit Power Control for	Communication System	Network Modern Dialup Intranet Access Over a Wireless Network Using	PPPoE	Method of Determining Art Coverage Area in a Point-10-Multipoint Transmission	System System	Transparent Public Addressed Networks	Within Private Networks Method for Providing	Transparent Public Addressed Networks Within Private Networks	Method for Fronting Addressed Networks Within Private Networks Method for Providing	Transparent Public Addressed Networks Within Private Networks Method for Estimating	Changes in Product Life Resulting From HALT Using Exponential
Grant Date															
Application Date		13-Jun-01		14-Jul-00	28-Feb-01		12-Jun-01		05-Jun-01		13-Jun-01	13-Jun-01	18-Oct-01	28-Nov-00	06-Jul-01
Country		Patent Cooperation Treatv		United States	United States		United States		United States		Argentina	Malaysia	Taiwan	United States	United States
James		AT&T Wireless		AT&T Wireless	AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent														•	
Application	Number		PC1/US01/18983	09/616128	2665785		03/07/07	0000	00/874570		10102824	72700000	90113964	722695	09/900779
Docket	Number		782.PCT	782.US1		20:407	31.00	80.08	707 110	20:00	789 AR		MT 087	780 []S	792.US

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	Title	Acceleration Model	Method for Estimating	Resulting From HALT	Using Quadratic	Acceleration Model	Turbo Channel Estimation	for OFDM Systems	System and Method of	Assigning Priority to	Remote Units in a Collision	Protocol	System and Method of	Assigning Priority to	Remote Units in a Collision	Free Multiple Access	Protocol	Method for Synchronization	of Received Signals	Time Synchronization	Signal	A Real-Time Rate Control	Mechanism for Multi-Rate	Data Transmissions in	Wireless Networks	A Real-Time Rate Control	Mechanism for Multi-Kate	Data Transmissions in	Wireless Networks	System and Method for	Adaptive Modulation in	Wireless Communications	AA.181. Sondon Network	Interface Apparatus for	Frequency-Division	Multiplexed	Communications Systems	
Grant	Date							,																		-								: 				; ;
Amiliantion	Date					06.hul-01		11-hm-01					24-Jul-03				25-Jul-02		19-May-04		20 000	77-DCI-01			21-Mar-03			e e	05-Apr-02				24-Apr-02				30-Apr-02	
	Country			<u> </u>		- Chatee	T	Chaited Chatee	Office States				United States				United States	Furnhean Patent	Convention			United States	Datent	Conneration	Treaty	11001)			United States		:		United States		Datent	Cooperation	Treaty	
	2	OWIE					AT&T Wireless		AT&T Wireless				AT&T Wireless				A TOT Misologo	AIGI WIIGIGSS	A TOT IAIlrohoen	Alai Wildias		AT&T Wireless				AT&I WIREIESS			AT&T \A/ireless	Algi Wildigs		-	AT&T Wireless	:			AT&T Wireless	A191 11110000
	Patent	Number																			•																	
	Application	Number					27,2006/60		09/878555				10/627192					60/399042		mailed		4628				PCT/US03/08721				10/116160			274009	-214030				PCT/US02/13758
	Docket	Number					)   C62	-	794.US				208118	130.00		:		798P.US		802.EPC		SI CUB	005.00			816.PCT				816.US	· 		9.1	817.03				819.PCT

Docket	Application	Patent Number	Öwner	Country Name	Application Date	Grant Date	Title
							Multi-Service Network Interface Apparatus for Frequency-Division Multiplexed
819.US.D1	09/879358	6687374	AT&T Wireless	United States	12-Jun-01	03-Feb-04	Communications Systems
							Prepaid Calling Time Processing: A Method and
							Apparatus for Processing
							Pre-Paid Calling 1 ime in a Telephone Communication
852 US	09/578031	6707894	AT&T Wireless	United States	24-May-00	16-Mar-04	System
005:00	200					. •	Prepaid Calling Time
							Processing: A Method and
							Apparatus for Processing
							Telephone Communication
852 US C1	10/751672		AT&T Wireless	United States	05-Jan-04		System
200							Network Protocol
853.US	10/615892		AT&T Wireless	United States	07-Jul-03	•	Converter
							integration of Wireless and External Computing
01.730	4061046		AT&T Wireless	United States	15-Sep-03		Devices
824.03	190491		2000				HTTP-Based Application
							Fingerprinting by HTTP
856115	10/773555		AT&T Wireless	United States	05-Feb-04		Proxy
							Terminal Device IP
857115	1971125		AT&T Wireless	United States	15-Sep-03		Address Authentication
20:120					30 - 0		Location Announcement
862.US	10/685616		AT&T Wireless	United States	14-00-03		Method System and
							Apparatus for Providing
							Wireless Identification to
31 0630	R0/520073		AT&T Wireless	United States	15-Nov-03		Standard Telephone
202F.U3	00/0500/3						Providing Location
•		-					Information for Wireless Devices Listing Name
				Linited Chatee	14.004.03	:	Service
874.US	10/685614		A I & I WIREESS	OIIIIGO OIGIGO	200		Distributed Handling of
							Information Directed to a
9700116	R0/543052		AT&T Wireless	United States	11-Feb-04		Wireless Device
00.16.0	000000E					•	Method and Apparatus for
					70 4-1		Providing Quality of Socios Through Millinia
SITUAN	10/776507		AT&T Wireless	United States	12-Feb-04		Service Trirough Muluple

							-	
Docket	Application	Patent		Country	Application Date	Grant Date	Title	
Number	Number	Number	Owner	Name			Carrier IP Networks	
							System and Method for	
							Telecommunications	
				1 Inited States	25-Mar-04		Network	
883P.US	60/557153		AT&T Wireless	Ollifed States			Terminal-Based Server for	
	-		ATOT Misologe	United States	24-Sep-04		Location Tracking	
886.US	mailed		AIGH WHICHOSS				Sharing Content on Mobile	
	00070007		AT&T Wireless	United States	09-Apr-04		Devices Sustain and Method for	
887.US	10/62/1000						Voice Recognition Using	
			. AT&T Mireless	United States	20-May-04		User Location Information	<del></del>
888.US	mailed		Algi Wildioss				Spam Control for Share	
21.080	10/822187		AT&T Wireless	United States	09-Apr-04		Identifying A Device to a	_
20.500				1 Inited Chates	22-lan-04		Network	
894,US	10/763862		AT&T Wireless	Onlied States	2 100.33		System for Providing	_
						<u>.</u>	Location-Based Services in	
							a Wireless Network, Such	_
					4E Apr. 04		as Locating sets of Desired Locations	
895P.US	60/562785		AT&T Wireless	United States	10-104-01		Porconal Base Station with	_
			· -	1 Inited States	14-Nov-03		Wireless Video Capability	
896P.US	60/519947		Al&i wireless	Ollifor Ollifor			Managing Differences in	
		<u>.</u>					User Devices when Sharing Content on Mobile	
			ATOT Wireless	United States	09-Apr-04		Devices	Т
897.US	10/821325		AIGH Wildias				Call Handling Scheme to	
511906	10/867957		AT&T Wireless	United States	14-Jun-04		Call Handling Scheme to	Т
2000			AT&T Wireless	United States	27-Jan-04		Reduce Roaming Charges	Т
906P.US	60/539780		5				Controlling the Operation	
							of Movable Wireless	
	•		-	1 Inited States	13-Sep-04		Networks	Т
908.US	mailed		Al&i wireless	00000			Method and System for	
							of Movable Wireless	
			A TO T Williams	United States	05-Mar-04		Networks	Т
908P.US	60/549920		Aldi Wildigs				Customized Signature	
915.US	10/881672		AT&T Wireless	United States	30-Jun-04		Message Service	7
							e de q	•

Docket	Application	Patent	Qwb	Country	Application Date	Grant Date	Title
Number	Number	Number	OWIG				Testing for Mobile Device
				004043 F 01:-11	10 Air		Locator Systems, Such as for E911 Phase II
921P.US	mailed		AT&T Wireless	United States	TO ROUGE		Wireless Device Service
							Activation from a Wireless
	7		AT&T Wireless	United States	13-Aug-04		Device
922.US	mailed						Selection of Bearer Mode
							According to Message
925.US	mailed		AT&T Wireless	United States	14-Sep-04		Maintaining Instant
							Message Session Status in
				· <u>-</u>			Dynamic Operating
511926	mailed		AT&T Wireless	United States	14-Sep-04		Lista Emotiona Such as
20072			0 T 0 T 0	I follod States	15-Jul-04		for Wireless Devices
927P.US	60/588307		AIGI WIIGIGSS	COURSE DOUBLE			
							Help Buddy for Instant
				octob	74 101		Messaging on a Wireless Device
928P.US	60/588110		AT&T Wireless	United States			System and Method for
							Data Organization and
					70 00		Display in an Instant-
929.US	mailed		AT&T Wireless	United States	03-2ep-04		Dedicated Wireless Device
				1 Inited States	14-Sen-04		Business Method
930.US	mailed		A I & I WIREIESS	OINIEU OIGIGS	200		Dedicated Wireless Device
311 0000	60/500185		AT&T Wireless	United States	21-Jul-04		Business Model
930F.03	201082000						Messaging Centric
			AT&T Wireless	United States	10-Sep-04		Wireless Device
931.US	mailed		200				Always On Mobile IM /
			A TOTA	United States	21-Jul-04		Wireless Device
931P.US	60/590229		A I & I WITCHESS	Daniel Daniel			
·.			AT&T Wireless/IXI	1 Inited States	20-Sep-04	· · · · ·	Mobile Communications Device
936.US	mailed		MODILE	Damio Pallio			Wireless Communication
							System Having Mobile
			AT&T				Communication Link
	1		Wireless/Atmel	Canada	30-Aug-96		Through the Base Station
237.CA	2231255		CGP.				

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Title	Wireless Communication System	Cordless Cellular System	Device and Method Used for Changing Wireless	Communication Between Base Stations of Different Kinds	Mobile Telecommunication Device and Method Used	for Changing Wileless Communication Between Base Stations of Different Kinds (PBS #3)	Mobile Teleconfinational Device and Method Used for Changing Wireless	Communication Between Base Stations of Different Kinds	Device and Method Used	for Changing Wireless Communication Between Base Stations of Different	Kinds (PBS #3)				
Grant Date				15-Jun-01	08-Jun-99	11-May-04		30-Jul-02		16-Jan-02		16-Jan-02			16-Jan-02
Application Date	30-Aug-96	30-Aug-96	30-Aug-96	30-Aug-96	08-Sep-95	04-Nov-98		30-Aug-96		30-Aug-96		30-Aug-96			30-Aug-96
Country Name	Canada	an Patent tion	Japan		United States	United States		Canada		Germany		European Patent Convention			France
Owner	ss/Atmel	AT&T Wireless/Atmel Corp.	ess/Atmel	ss/Atmel	AT&T Wireless/Atmel Corp.	AT&T Wireless/Atmel Com		AT&T Wireless/Atmel		AT&T Wireless/Atmel		AT&T Wireless/Atmel		AT&T Wireless/Atmel	Corp.
Patent Number				202428	5011120	6776430	0133432		0/81872	2 7 7020 77	030 10004.1	90	00001		848888
Application		2321957	0.00240500.0	324100	201021	1440440	808081/80		2231370		96940621.4		90940021.4		969406214
Docket	<u> </u>	-				237.05	237.08.01		238.CA		238.DE	٠.	238.EPC		230 ED

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
							Mobile Telecommunication Device and Method Used
			T814				for Changing Wireless Communication Between
	7 70007000	0000	Wireless/Atmel	Great Britain	30-Aug-96	16-Jan-02	Base Stations of Different Kinds (PBS #3)
238.68	909400Z1.4	040000	ATRT				A Mobile
738 ID	0_511203		Wireless/Atmel	Japan	30-Aug-96		Telecommunicating Device and Method of Operation
2000	0-011630						Mobile Telecommunication
							Device and Method Used
			ATRT				Communication Between
			Wireless/Atmel			,	Base Stations of Different
238.MX	981819	202427	Corp.	Mexico	30-Aug-30	ID-unc-ci	NITIOS
							Mobile Telecommunication Device and Method Used
							for Changing Wireless
			AT&T				Communication Between
,			Wireless/Atmet	0.04000	90	00 200	Base Stations of Different
238.US	-58590	5732360	Corp.	United States	06-dec-90	06-JPM-47	Nirius (res #3)
·		•					Communications Network
			AT&T	European Patent	77.		Charging Methods and
546.EPC	3739732	•	Wireless/Nortel	Convention	11-rep-03		Apparatus
				Patent			Communications Network
			AT&T	Cooperation			Charging Methods and
546 PCT	PCT/US03/04036		Wireless/Nortel	Treaty	11-Feb-03		Apparatus
					•		Centralized   Communications Network
	-		H 0 H 4		•		Charging Method and
010070	40/206446		Algi	United States	11-Feb-03		Apparatus
546.03	011000/01						Telecommunications
•			AT&T				Network Centralized
546P1.US	60/356579	,	Wireless/Nortel	United States	11-Feb-02		Charging System Lopology
			AT&T	<del></del>		· <u>·</u>	Payment Methods and
546P2.US	60/356578		Wireless/Nortel	United States	11-Feb-02		Apparatus
							Service tools Via
			********				Database Table
756110	00/4/06278		Wireless	United States	24-Sep-99		Transversals
430.03	03/4004/0						

:					2 10	Grant	
Docket	Application	Patent	,	Country	Application Date	Date	Title
Number	Number	Number	Owner	Name			Calling Party Paid Wireless Telecommunication
		÷	AT&T/AT&T	Chaited Chates	12-Jan-99	30-Oct-01	System
211627	09/228646	6311053	Wireless	$\dagger$			Method and Apparatus for
400.00						•	Automatic Confirmation of
<del></del>			AT9T/AT2T			•	Short Message Service
			Wireless	China P.R.	06-Nov-01		Method and Apparatus for
509.CN	1818413.8						Network-Assisted
							Short Messade Service
			AT&T/AT&T	European Patent	08-Nov-01		Delivery
509.EPC	1990011.7		Wireless	Convenion			Method and Apparatus for
		-					Automatic Confirmation of
				Patent		:	Short Message Service
			AT&T/AT&T	Treaty	06-Nov-01		Delivery 1 Assarable for
509.PCT	PCT/US01/47231		Wireless				Method and Apparatus to:
		:					Automatic Confirmation of
\			1	:			Short Message Service
	:		AT&T/AI&I	United States	06-Nov-01		Delivery
509.US2	10/011554		Wireless	T Datent			Wireless Internet Call
			AT&T/AT&T	Convention	12-Jan-01		Waiting Service
524.EPC	1100127.8		Wireless				Wireless Auto-
			AT&T/AT&T	Loited States	11-Dec-00		Conferencing
547.US	09/734157		Wireless	OIIIICO CORICO		· 	Methods and Apparatus for
		·	AT&T/AT&T	Chatter Chatter	04-Sep-01		Conferencing
547.US.C1	09/945868		Wireless	Ollifed States	╀╌		TDMA Communication
			AT&T/AT&T	European Patent	07-Jun-01		Power Control
558.EPC	1112965.7		Wireless				System Having Enhanced
			AT&T/AT&T	Softato Potici	16-Feb-01	22-Jun-04	Power Control
558.US	-522416	6754506	Wireless	Onited States		 	Method and System for
							Users in a Multi-Networked
			Mreless	United States	07-May-01	:	Environment
567.US	-615919		AT&T/AT&T	European Patent	t 66 hm 04		Method and Apparatus for Sharing Wireless Content
572.EPC	1112956.6		Wireless	Convention	O-line-on I		

Docket	Application	Patent		Country	Application	Grant		
Number	Number	Number	Owner	Name	Date	Date	Title	
			AT&T/AT&T				Method and Apparatus for	aratus for
572.US	09/801635		Wireless	United States	09-Mar-01		Sharing Wireless Comein	Contain
							Partitioning for Improved	ocoved
•				-			Interference Rejection in	ction in
			. Al&I/Al&I	Canada	15-Nov-02		Wireless Packet Networks	Networks
629.CA	2411899		AVII GIGGS				Progressive Reuse	se
					•		Partitioning for Improved	nproved
			AT&T/AT&T				Interference Rejection in	ction in
31100	4035707		Wireless	United States	15-Nov-01		Wireless Packet Networks	Networks
023.03	10,2001					•	Method and Apparatus for	aratus for
-	٠		AT&T/AT&T				Controlling Access to a	ss to a
20116	00/148216	6404753	Wireless	United States	04-Sep-98	11-Jun-02	Communication Channel	Channel
121.03	03/140310	20120					Apparatus, System and	and me
				Patent			Method for Validating	ating
			AT&T/AT&T	Cooperation			Integrity of Transmitted	mitted
744 DCT	DCT/IICO1/28658		Wireless	Treaty	14-Sep-01		Data	
5	1 0110001120000						Apparatus, System and	am and
					-		Method for Validating	ating
			AT&T/AT&T				Integrity of Transmitted	mitted
244116	2670533		Wireless	United States	18-Sep-00		Data	
141.00	2010303						Apparatus, System and	em and
						-	Method for Detecting a	cting a
							Loss of Key Stream	me
			AT&T/AT&T	-			Synchronization in a	e u
31107	00/702043		Wireless	United States	15-Feb-01		Communication System	System
742.03	03/705043						Apparatus, System and	em and
							Method for Validating	fating
			AT&T/AT&T	European Patent			Integrity of Transmitted	smitted
742 500	2721814 6		Wireless	Convention	15-May-02		Data	
749.67	2731014.0						Apparatus, System and	em and
				Patent			Method for Validating	Jating
	-		AT&T/AT&T	Cooperation	-		Integrity of Transmitted	smitted
170 CT	DCT/11502/15451		Wireless	Treaty	15-May-02		Data	
743.701	101/0000/10431						Apparatus, System and	em and
						•	Method for Validating	Jating
			AT&T/AT&T				Integrity of Transmitted	smitted
-01-67	00.070576	•	Wireless	United States	12-Jun-01		Data	
743.03	03(03010	-					Airline Telephone Handset	ne Handset
				•			With Digital Passenger	senger
			Claircom				Control Functions and	ns and
186115	29/021670	D363068	Communications	United States	21-Apr-94	10-Oct-95	Video Game Controls	ontrols
100.00	201021010							

Docket	Application	Patent		Country	Application	Grant Date	Title	
Number	Number	Number	Owner	Хаше			Airline Telephone Handset	
	,						Control Functions and	
•		0368400	Communications	United States 2	25-Apr-94	23-Jan-96	Video Game Controls Airline Telephone Handset	
86.US.CP1	29/021800	0300402					With Digital Passenger	
	,		Claircom	United States	19-Jun-95	18-Jun-96	Video Game Controls	
86.US.D1	29/040119	02/09/0	Claircom	United States	07-Jun-95	29-Jul-97	Telephone Handset and Cradle	
87.US	08/482200	18000	Claircom	Austria	08-Sep-95	20-Oct-95	Telephone Handset	
188.A1	3230/33 400E 4008	77075	Claircom Communications	Canada	07-Sep-95	25-Jan-96	Telephone Handset	
188.CA	1990-1990 MOEO7031 A	M9507231.4	Claircom Communications	Germany	07-Sep-95	21-Feb-96	Telephone Handset	
188.05	1.107 LOCEIN	054807	Claircom	France	11-Sep-95	09-Feb-96	Telephone Handset	·
188.FR	994887 2050278	2050278	Claircom Communications	Great Britain	08-Sep-95	25-Jan-96	Telephone Handset	
188.55	2050278	9900591	Claircom	Hong Kong	10-Mar-95	23-Jul-99	Telephone Handset	
188.HK	16827/1995	192764	Claircom Communications	South Korea	07-Sep-95	03-Feb-97	Telephone Handset	
188 SF	951701	59555	Claircom	Sweden	08-Sep-95	05-Jun-96	Telephone Handset	
188 8.6	2050278	2050278	Claircom Communications	Singapore	08-Sep-95	25-Jan-96	Telephone Handset	<u> </u>
188.US	29/035969	D371553	Claircom Communications	United States	10-Mar-95	96-Jnf-60	Telephone Handset	
189.EPC	96907201.6		Claircom Communications	European Patent Convention	08-Mar-96		Handset in ah Armrest Tube Mounted Telephone	<del>-Т.</del>
189 HK	98106849.3		Claircom Communications	Hong Kong	26-Jun-98		Handset in an Armrest Tube Mounted Telephone	
189 US	2548877	5627891	Claircom	United States	10-Mar-95	06-May-97	Handset in an Armrest	٦ ٔ

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Docket	Application	Patent		Country	Application Date	Grant Date	Title	
Number	Number	Number	Owilei				1	
191.DE	29580194.8	29580194.8	Communications	Germany	25-Apr-95	20-Feb-97	Airplane Telephone	
9	527740/95		Claircom Communications	Japan	25-Apr-95		Airplane Telephone	
191.2F	10-1996-705967	10-348946	Claircom Communications	South Korea	25-Apr-95	02-Aug-02	Airplane Telephone	
101 MX			Claircom Communications	Mexico	25-Apr-95		Airplane Telephone	
100 101	DCT// ISQ5/04821	95/04821	Claircom Communications	Patent Cooperation Treaty	25-Apr-95	02-Nov-95	Airplane Telephone	
193.US	08/040180	5463678	Claircom Communications	United States	26-Mar-93	31-Oct-95	Credit Card Reader	
195115	08/040179	5410597	Claircom Communications	United States	26-Mar-93	25-Apr-95	Wired Seat Back Aircrait Telephone Set	crain
106118	08/040178	5394467	Claircom Communications	United States	26-Mar-93	28-Feb-95	Multi-Purpose Telephone Strain Relief Stabilization of Frequency	hone
SI 801	08/042426	5455964	Claircom Communications	United States	26-Mar-93	03-Oct-95	and Power in an Airborne Communication System	borne tem
199.US	29/007592	D361568	Claircom Communications	United States	26-Mar-93	22-Aug-95	Airplane Telephone Set	Set for Air-
251.US.C1	08/451719	6393281	Claircom	United States	26-May-95	21-May-02	To-Ground Systems Multi-Nodal Digital	
259 US.C6C2C2	09/451579		Claircom Communications	United States	30-Nov-99		System System Multi-Nodal Digital	5
259.US.C6C4C1	-		Claircom Communications	United States	14-Mar-01		System Short Messaging Method	ethod
375.US.C1	09/520806	6449287	Claircom Communications	United States	08-Mar-00	10-Sep-02	Passengers Short Messaging Method	ethod
375.US.C1(1)	10/211929		Communications	United States	V 02-Aug-02		and System for Airbome Passengers	<b>ө</b> шос

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Title	Wireless Communications	Wireless Communications	Terminal	Wireless Communications Terminal	. ·	Wireless Communications Terminal	Wireless Communications Terminal	Wireless Communications Terminal	Wireless Communications	Terminal	Wireless Communications Terminal		Multithreaded Batch Processing System	Processing System	Multithreaded Batch Processing System	Method and Apparatus for	Processing Discrete Diffing Events	Method and Apparatus for processing Discrete Billing	Events	No-Reset Option in a Ratching Billing System	
Grant Date	40 404 06	26-140-01	29-Sep-95	29-Sep-95		31-Mar-95	20-Apr-00	26-Feb-96		05-Jul-95	05-Jul-95		16-Mar-04	18-Dec-01	16-Sep-97			.· 	03-Mar-98		
Application Date		14-Dec-94	21-Dec-94	21-Dec-94		22-Dec-94	22-Dec-94	70,000,00	*6-DaC-77	22-Dec-94			04-Sep-01	04-Jun-97	19-Apr-94		23-Feb-95		19-Apr-94	1	23-F60-95
Country		Germany	Finland	Finland		France	Vieti Vieti		Japan	Sweden	co post	Sweden	United States	United States	United States		Canada		United States		Canada
	McCaw Cellular	S	McCaw Cellular Communications	McCaw Cellular	$\vdash$	McCaw Cellular Communications	McCaw Cellular	McCaw Cellular	Communications	McCaw Cellular Communications	McCaw Cellular	Communications	Teleflex Information Systems, Inc.	Teleflex Information Systems, Inc.	Teleflex Information	Systems, inc.	Teleflex Information	Systems, Inc.	Teleflex Information	Teleflex Information	Systems, Inc.
Patent	Number	M9409857.3	17729		17730	946994		69309	953799	57901		57902	6708228	6322167	200	5668993				2/24304	
Application	Number	M9409857.3	861/04		862/94	046004		T0940000254	39446/1994	942575		942576		09/944300	US/SDS942	08/229526		2184368		08/698277	2184369
Docket	Number	153.DE			153.FL.2	0	72.5C	153.IT	153.JP	153 CF 1		153.SE.2		2001-TE001	2001-TE001	2001-TE001		2001-TE002		2001-TE002	2001-TE003

Docket	Application	Patent		Country	Application Date	Grant Date	Title	
Number	Number	Number	Owner	211121				
		6658488	Teleflex Information Systems, Inc.	United States	27-Aug-01	02-Dec-03	No-Reset Option in a Batching Billing System	
2001-15003	09/930027	20000						
			Teleflex Information	i i	9	28 Aug-01	No-Reset Option in a Batch Billing System	
TEO02	00/340384	6282519	Systems, Inc.	United States	28-Jun-82	- ROU-07		
2001-15003	100010		Teleflex Information	I laited States	25_lan-95	07-Dec-99	No-Reset Option in a Batching Billing System	
2001-TE003	08/377610	5999916	Systems, Inc.	COINICA CHOICE			No-Reset Option in a	
			Teleflex Information	I Inited States	17hrl-03		Batching Billing System	
2001-TE003.C1	10/622106		Systems, Inc.	Ollifed States				
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